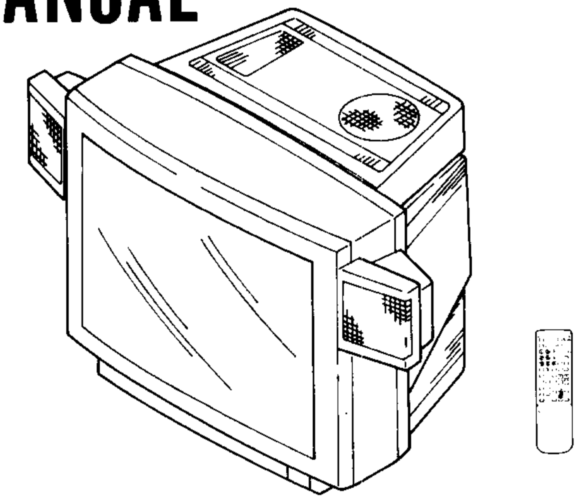
P8-15

KV-27XBR51/27XBR55

RM-Y106 RM-Y107

SERVICE MANUAL



US Model
KV-27XBR51
Chassis No. SCC-E28D-A
KV-27XBR55
Chassis No. SCC-E28A-A

Canadian Model
KV-27XBR51
Chassis No. SCC-E35D-A
KV-27XBR55
Chassis No. SCC-E35A-A

ANU-1A CHASSIS

MODELS OF THE SAME SERIES	
KV-27XBR51/27XBR55	KV-27XBR50
KV-27XBR10/27XBR60	
KV-27XBR15/27XBR65	

SPECIFICATIONS

Television system	American TV standards
Channel coverage	VHF: 2 – 13 UHF: 14 – 69 Cable TV: 1 – 125
Picture tube	Microblack Trinitron tube 27-inch picture measured diagonally 28-inch picture tube measured diagonally
Antenna	75-ohm external antenna terminal for VHF/UHF
Input	VIDEO 1, 2 and 3 IN S VIDEO IN (4-pin mini DIN) Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal) 75-ohms Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms
Output	MONITOR OUTPUT S VIDEO OUTPUT (4-pin mini DIN) Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal) 75-ohms Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks): 500 mVrms (100% modulation) Impedance: 10 kilohms AUDIO OUTPUT (VARIABLE) (phono jacks) More than 408 mVrms at the maximum volume setting (variable) Impedance: 5 kilohms
Speaker output	Main speakers 5W × 2: 8-ohm minimum Super woofer 20W: 8-ohm minimum
Power requirements	120V AC, 60Hz
Power consumption	225W (MAX) 1.5W (stand by)

MICROFILM

TRINITRON® COLOR TV

SONY®

Dimensions (w/h/d) Approx. 661 × 563.5 × 547.5 mm
(26⅛ × 22¼ × 21⅝ inches)

Weight
(KV-27XBR51)
Approx. 48.5kg (106lb 15oz)
(KV-27XBR55)
Approx. 49.4kg (108lb 15oz)

Accessories supplied
YES: supplied NO: not supplied

Model	KV-27XBR51	KV-27XBR55
Programmable Commander	RM-Y106	RM-Y107
	with 2 size AA (R6) batteries (1)	
Mini Commander	YES	YES
Speakers and speaker cords	Main speakers (2) Super woofer (1) Speaker cords (2) and screws (4) for main speakers	Main speakers (2) Super woofer (1) Speaker cords (2) and screws (4) for main speakers
Antenna connector (1)	YES	YES

Optional accessories
U/V mixer EAC-66
Connecting cable
VMC-810/820S
YC-15V/30V
Video rack
SU-251 (black)
SU-330 (black)

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

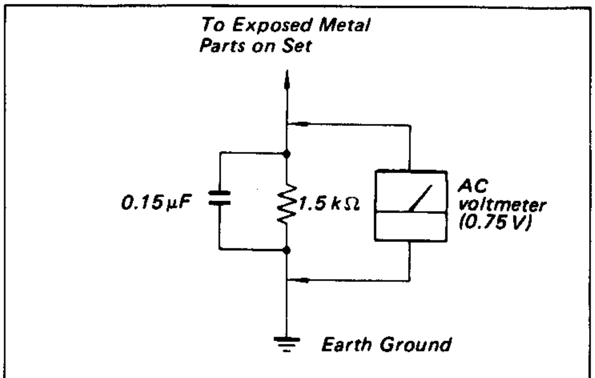


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

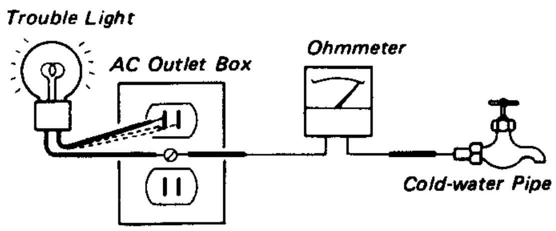
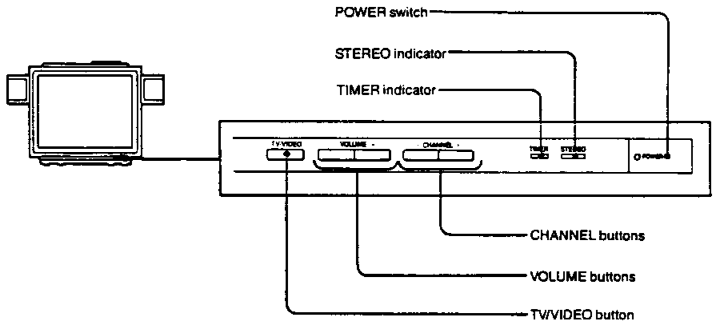


Fig. B. Checking for earth ground.

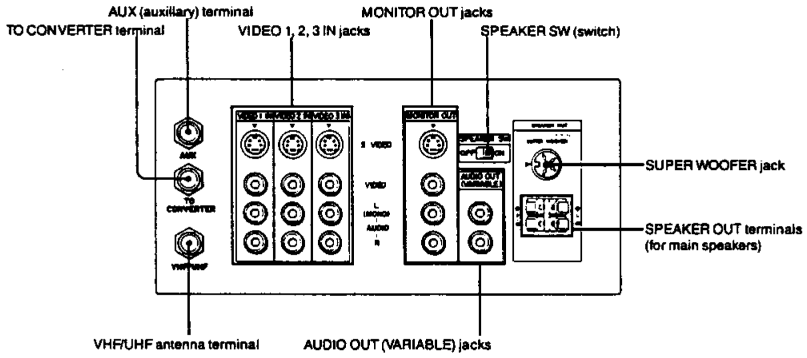
SECTION 1
GENERAL

1-1. NAMES OF THE PARTS

Front


POWER switch
STEREO indicator
TIMER indicator
CHANNEL buttons
VOLUME buttons
TV/VIDEO button

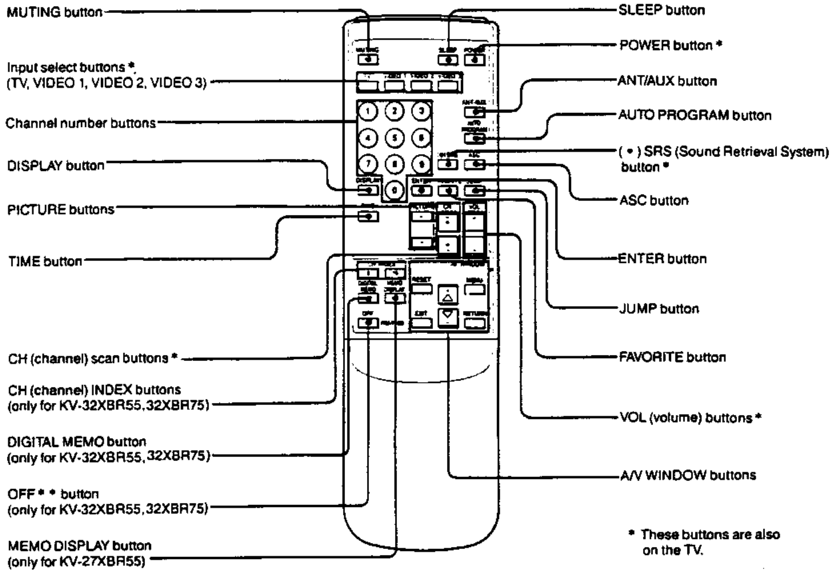
Rear


AUX (auxiliary) terminal
TO CONVERTER terminal
VIDEO 1, 2, 3 IN jacks
MONITOR OUT jacks
SPEAKER SW (switch)
SUPER WOOFER jack
SPEAKER OUT terminals
(for main speakers)
VHF/UHF antenna terminal
AUDIO OUT (VARIABLE) jacks

The whitened parts are only for KV-32XBR51, 32XBR55.

1-2. PRESET TV CHANNELS

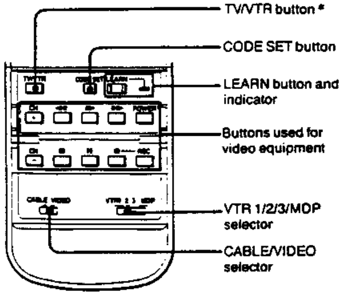
Programmable Remote Commander


MUTING button
Input select buttons * (TV, VIDEO 1, VIDEO 2, VIDEO 3)
Channel number buttons
DISPLAY button
PICTURE buttons
TIME button
CH (channel) scan buttons *
CH (channel) INDEX buttons (only for KV-32XBR55,32XBR75)
DIGITAL MEMO button (only for KV-32XBR55,32XBR75)
OFF * * button (only for KV-32XBR55,32XBR75)
MEMO DISPLAY button (only for KV-27XBR55)
SLEEP button
POWER button *
ANT/AUX button
AUTO PROGRAM button
(•) SRS (Sound Retrieval System) button *
ASC button
ENTER button
JUMP button
FAVORITE button
VOL (volume) buttons *
A/V WINDOW buttons

* These buttons are also on the TV.

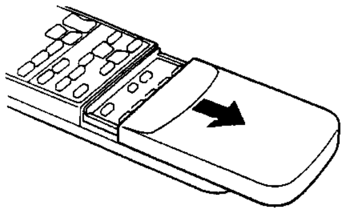
** This button has the same function as OFF inside the cover.

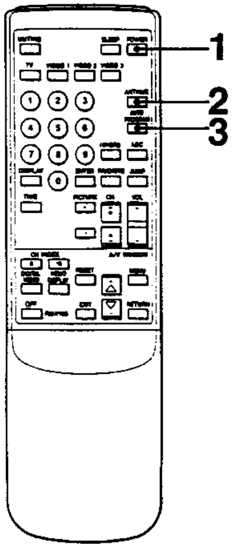
Buttons inside the cover


TV/VTR button *
CODE SET button
LEARN button and indicator
Buttons used for video equipment
VTR 1/2/3/MDP selector
CABLE/VIDEO selector

To use the buttons inside the cover

Slide down the cover.





Notes

Receivable channels of this TV are:
VHF: 2-13
UHF: 14-69
Cable: 1-125

To check preset channels
Press CH +/−.

If the indication "VIDEO 1, VIDEO 2, VIDEO 3, S VIDEO, LD, or VTR" is displayed on the screen
Press the TV/VIDEO button on the TV or the TV button on the Remote Commander so that a channel number appears.

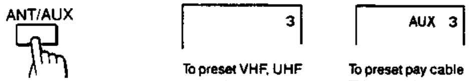
Without presetting
You can watch TV channels by using the 0-9 buttons and ENTER.

To Preset All Receivable Channels Automatically

Only with pressing a button, on can preset all receivable channels automatically.

1 Press POWER on the TV or the Remote Commander to turn the TV on.

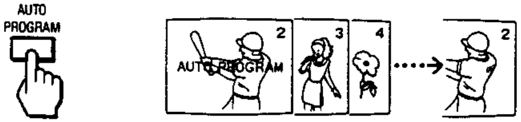
2 Press ANT/AUX according to the channel to be preset.


ANT/AUX
3
AUX 3

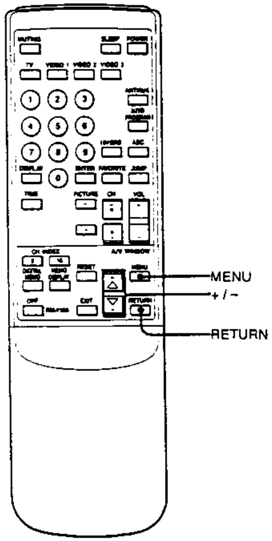
To preset VHF, UHF or regular cable TV channels

To preset pay cable TV channels

3 Press AUTO PROGRAM.


AUTO PROGRAM
AUTO PROGRAM
2
3
4
2

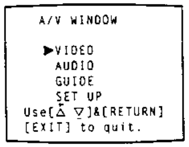
"AUTO PROGRAM" is displayed on the screen and receivable channels (other than the channels already preset) will be preset in numerical sequence. The channels previously preset remain in the unit's memory.
When no more channels can be found, the programming stops and the lowest numbered channel is displayed.



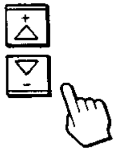
To Turn the Cable Mode Off (or On)

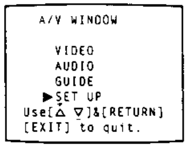
If you have cable connected to your TV, follow the steps below to turn the cable connection off or on. Turn cable OFF when you want to preset or watch VHF or UHF channels, and turn cable ON to preset or watch cable TV channels.

1 Press MENU.

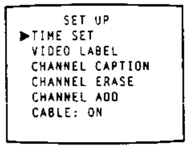

```
  A/V WINDOW

  ▶VIDEO
   AUDIO
   GUIDE
   SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

2 Press +/− until ▷ points to "SET UP".

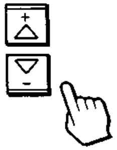


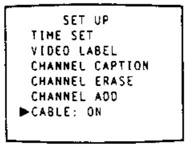

```
  A/V WINDOW

   VIDEO
   AUDIO
   GUIDE
  ▶SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

3 Press RETURN.

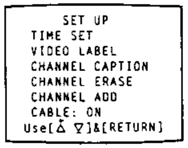

```
    SET UP
▶TIME SET
 VIDEO LABEL
 CHANNEL CAPTION
 CHANNEL ERASE
 CHANNEL ADD
 CABLE: ON
```

4 Press +/− until ▷ points to "CABLE".

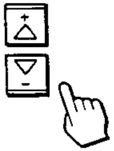


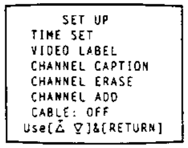

```
    SET UP
 TIME SET
 VIDEO LABEL
 CHANNEL CAPTION
 CHANNEL ERASE
 CHANNEL ADD
▶CABLE: ON
```

5 Press RETURN.

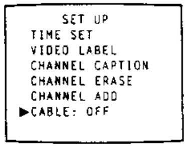

```
    SET UP
 TIME SET
 VIDEO LABEL
 CHANNEL CAPTION
 CHANNEL ERASE
 CHANNEL ADD
 CABLE: ON
Use[△ ▽]&[RETURN]
```

6 Press +/− until the cable is turned off (or on).




```
    SET UP
 TIME SET
 VIDEO LABEL
 CHANNEL CAPTION
 CHANNEL ERASE
 CHANNEL ADD
 CABLE: OFF
Use[△ ▽]&[RETURN]
```

7 Press RETURN.


```
    SET UP
 TIME SET
 VIDEO LABEL
 CHANNEL CAPTION
 CHANNEL ERASE
 CHANNEL ADD
▶CABLE: OFF
```

Note

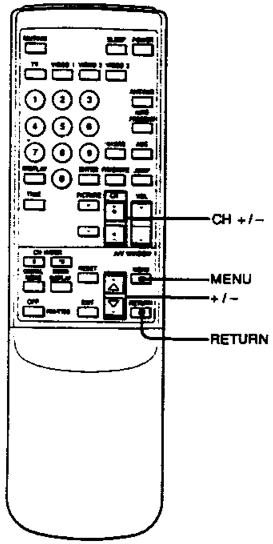
Cable TV channel chart*

Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

Number on this TV	Corresponding CATV channel
1	A-8
5	A-7
6	A-6
14	A
15	B
16	C
17	D
18	E
19	F
20	G
21	H
22	I
23	J
24	K
25	L
26	M
27	N
28	O
29	P
30	Q
31	R
32	S
33	T
34	U
35	V
36	W
37	W+1
38	W+2
39	W+3
⋮	⋮
93	W+57
94	W+58
95	A-5
96	A-4
97	A-3
98	A-2
99	A-1
100	W+59
101	W+60
102	W+61
⋮	⋮
123	W+82
124	W+83
125	W+84

Check with your local cable TV company for more complete information on the available channels.

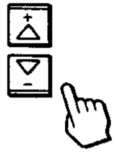
* The designation of the cable TV channels conforms to the EIA/NCTA recommendation.



To Erase TV Channels

Steps 1 – 3: Same as in "To Turn the Cable Mode Off (or On)" (page 21).

4 Press +/– until ▷ points to "CHANNEL ERASE".

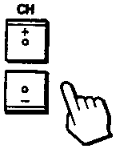


```
      SET UP
  TIME SET
  VIDEO LABEL
  CHANNEL CAPTION
 ▶CHANNEL ERASE
  CHANNEL ADD
  CABLE: ON
 Use[△ ▽]&[RETURN]
```

5 Press RETURN.

```
 ERASE

Use [CH+, -] to
select the CH.

Then [RETURN] to
erase.
```

6 Press CH +/– to set the desired channel.



```
 ERASE          8

Use [CH+, -] to
select the CH.

Then [RETURN] to
erase.
```

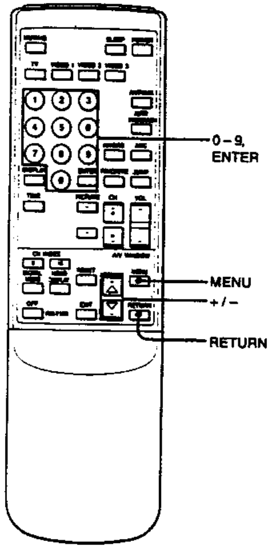
7 Press RETURN.

```
 ERASE          8

Use [CH+, -] to
select the CH.

Then [RETURN] to
erase.
```

The channel is erased.
If you want to erase another channel, repeat steps 6 – 7.

Note

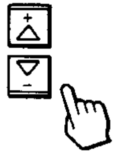
If you have erased a VHF or UHF channel
The cable TV channel with the same number is also erased and vice versa.



To Add TV Channels

Steps 1 – 3: Same as in "To Turn the Cable Mode Off (or On)" (page 21).

4 Press +/– until ▷ points to "CHANNEL ADD".

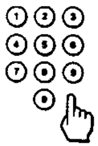


```
      SET UP
  TIME SET
  VIDEO LABEL
  CHANNEL CAPTION
  CHANNEL ERASE
 ▶CHANNEL ADD
  CABLE: ON
```

5 Press RETURN.

```
 ADD

Use[0-9]&[ENTER]
to select the CH.

Then [RETURN] to
add.
```

6 Press 0 – 9 to set the desired channel.



```
 ADD            2 0

Use[0-9]&[ENTER]
to select the CH.

Then [RETURN] to
add.
```

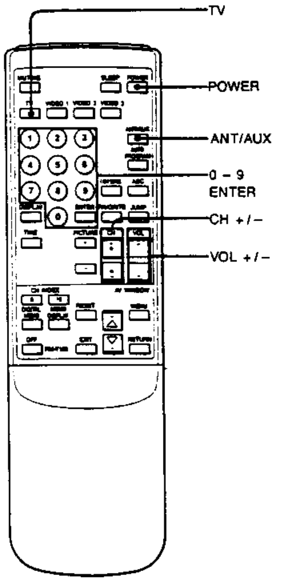
7 Press ENTER.

8 Press RETURN.

```
 ADD          + 2 0

Use[0-9]&[ENTER]
to select the CH.

Then [RETURN] to
add.
```

The channel is added.
If you want to add another channel, repeat steps 6 – 8.

1-3. WATCHING TV PROGRAMS



Notes

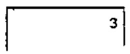
To turn off the TV
Press POWER on the TV or the Remote Commande again.

If the indication "VIDEO 1, VIDEO 2, VIDEO 3, S VIDEO, LD, or VTR" is displayed on the screen
Press TV on the Remote Commander.

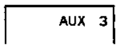
If you set the FAVORITE CHANNEL
You can choose the channels more easily.

1 Press POWER on the TV or the Remote Commander to turn on the TV.

2 Press ANT/AUX according to the channel to be watched.
If you want to change the cable mode, see page 00.



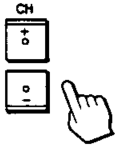
To view VHF, UHF or regular cable TV channels



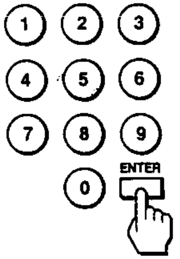
To view pay cable TV channels

3 Select a channel in one of the following two ways:

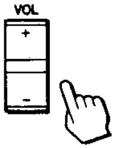
To scan the preset channels in numerical sequence, press CH +/–.



To select a channel directly, press the channel number button(s) and then ENTER.
For example, to select channel 10, press 1, 0 and ENTER.



4 Press VOL + or – to adjust the volume.



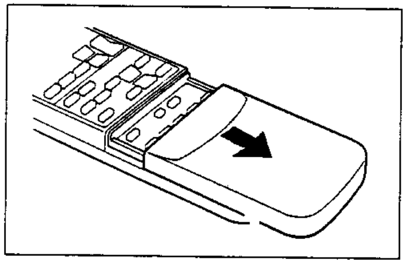
1-5. WATCHING TWO OR MORE CHANNELS AT THE SAME TIME
(The models equipped with this functions are : KV-27XBR55)

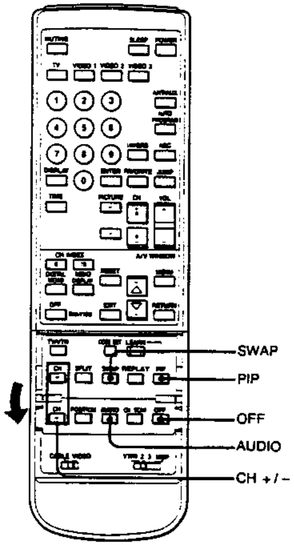
You can watch two or more channels at the same time.

- ***When watching two channels*** *(the main picture and a window picture)*
  You can:
  - *swap the main and the window picture.*
  - *change the position of the window picture.*
  - *replay the main picture displayed 2 seconds before in the window picture.*
  - *split the screen with the main and the window picture.*
  - *store a TV picture.*
- ***When watching more channels*** *(the main picture and several window pictures)*
  You can:
  - *watch 8 different channels*
  - *watch 16 different channels*
- ***You can scan other channels***

Preparation

1 Slide the cover of the supplied Remote Commander.





Notes

To make the window picture disappear
Press OFF.

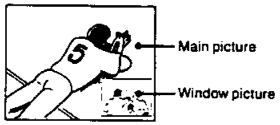
To scan programs in the window picture
Press CH +/- in the picture-in-picture area.

Notes on the window picture

- In the window picture, the VIDEO LABEL and CHANNEL CAPTION will not appear even if you have set them.
- If a window picture is blocked, the "B" indication will appear on the window screen.

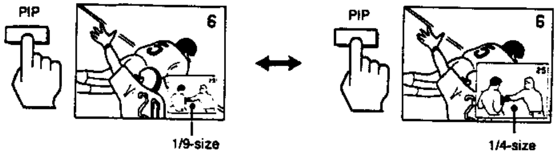
Watching a Window Picture

Besides the main picture, you can watch another TV channel (including CATV) or a video source simultaneously in a window picture.
You can enjoy the convenience of the "picture-in-picture" function when there are two TV channels you want to watch at the same time or when you want to monitor your VCR while watching TV, etc.



To display a TV program in a window

Press PIP.

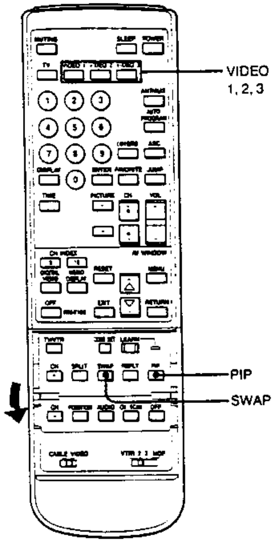


The window picture in the last mode you watched will appear. Each time PIP is pressed, a 1/4-size or 1/9-size window picture will appear alternately.

To hear the sound for the window picture
Press AUDIO.
To hear the sound for the main picture, press AUDIO again.

- The sound of the window picture is also output from the VARIABLE AUDIO OUT.
  (The MONITOR OUT outputs the sound of the main picture only.)
- The sound for the window picture is monaural when you use the RFU output.
- When you press AUDIO, the "♪" indication appears and you can know the sound comes from which.

To swap the main and the window pictures
Press SWAP.



Note

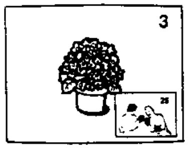
With the supplied Remote Commander
You cannot control VCR without settings.

Watching a Window Picture (continued)

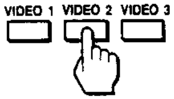
To display VIDEO input picture in a window

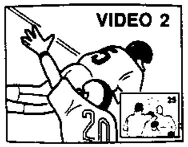
You can watch VIDEO input picture (either playback picture or TV program from VCR tuner) using picture-in-picture.
If you want to control your VCR with the supplied Remote Commander.

1 Press PIP.

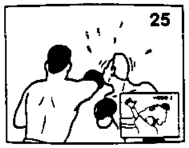


2 Press VIDEO 1, 2, or 3 to select the desired input mode.
You can only change the VIDEO input mode in the main picture.





3 Press SWAP so that the VIDEO input picture becomes a window picture.

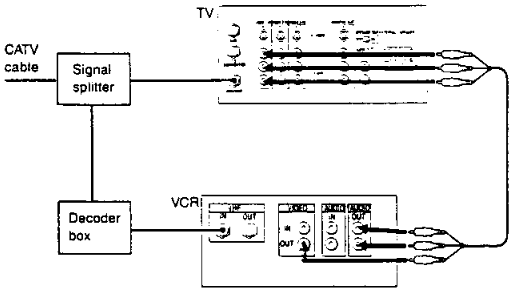


To change the VIDEO input mode, press SWAP again to swap with the main picture.

To display pay cable TV in a window

If you use a cable converter box, make proper connection for using picture-in-picture first.

Connection



Operation
Steps 1 – 3: same as in "To display VIDEO input picture in a window" (page 38).

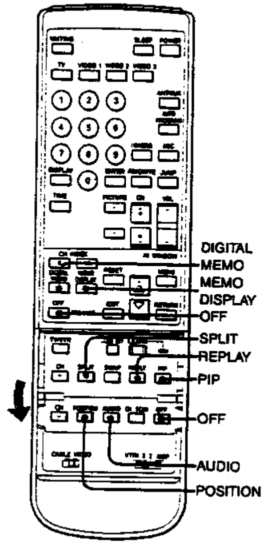
4 Put your VCR on an inactive channel (3CH or 4CH).

5 Change pay cable TV channels with the decoder box.

Notes

If you want to control your VCR or decoder box with the supplied Remote Commander
See page 59 and 62.

If you connect your decoder box to the AUX terminal
You can watch the SPLIT and REPLAY picture only.


DIGITAL
MEMO
MEMO
DISPLAY
OFF
SPLIT
REPLAY
PIP
OFF
AUDIO
POSITION

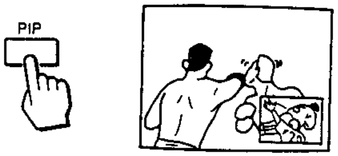
Note

On replay picture
The replay picture is always displayed in 1/9 size.

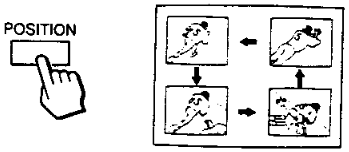
Advanced Operation of a Window Picture

To change the position of a window picture

1 Press PIP.

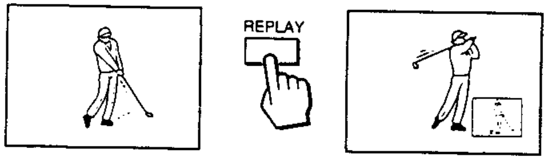


2 Press POSITION.
Each time you press POSITION, the window picture will move as illustrated.



To replay the main picture displayed 2 seconds before in the window picture

Press REPLAY.



To make the replay picture disappear, press OFF.

To store a TV picture

You can store a desired picture in the memory of this TV. You can recall the stored picture.
Storing the picture is convenient when you want to write down a recipe of a cooking program or a displayed toll free number, etc.

Press DIGITAL MEMO.
The TV picture will be stored.

DIGITAL
MEMO

To restore the normal picture
Press MEMO DISPLAY.

MEMO
DISPLAY

When you press MEMO DISPLAY, the screen changes from the stored picture to the normal picture.

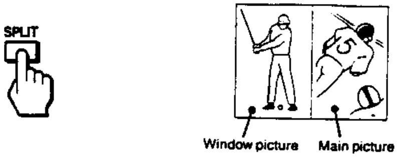
To recall the stored picture
Press MEMO DISPLAY again.

MEMO
DISPLAY

The memory of the stored picture is kept except for the following cases:
- when the TV is turned off.
- when another picture-in-picture function is used.
- when you press OFF twice.

To split the screen between the main picture and the window picture

Press SPLIT.

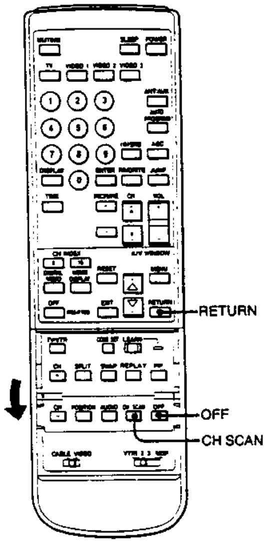

SPLIT
Window picture
Main picture

Notes

To make the window picture disappear
Press OFF.

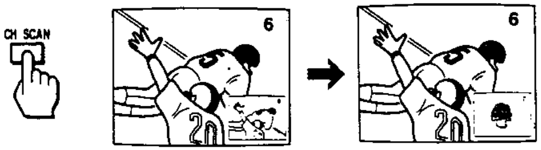
To hear the sound for the window picture
Press AUDIO.

When using the split-screen feature
Vertical lines may appear to you to be elongated.



Scanning Other Channels

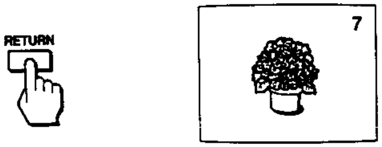
Press CH (channel) SCAN.



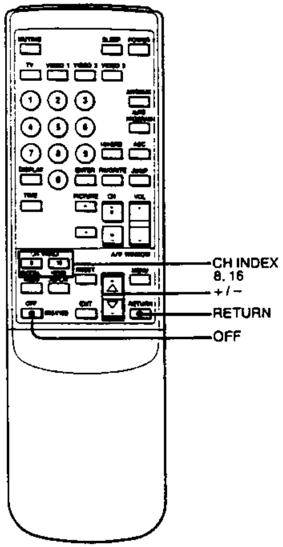
Each channel appears in the window picture for 3 seconds sequentially.

To watch the channel in the window picture continuously.
Press RETURN while the desired channel is in the window picture.

Press RETURN.



To cancel CHANNEL SCAN
Press OFF.



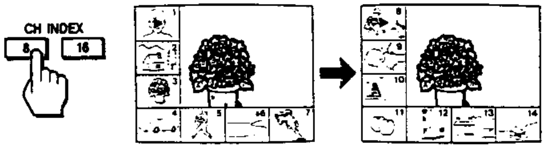
Note

When you use the CH INDEX 8 function, part of the main picture is covered by the window pictures.

Watching Several Window Pictures Simultaneously

To display 8 different channels
(the main picture and 7 window pictures)

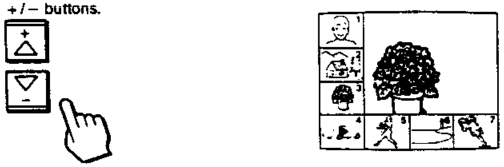
Press CH INDEX 8.



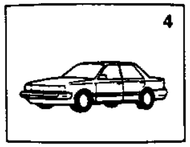
Programs of seven TV channels appear in numerical sequence as window pictures.
Each time you press CH INDEX 8, the next seven sequential channels will appear.

To watch one of the window pictures

1 Position ▷ in the window screen of the desired channel by pressing the +/− buttons.

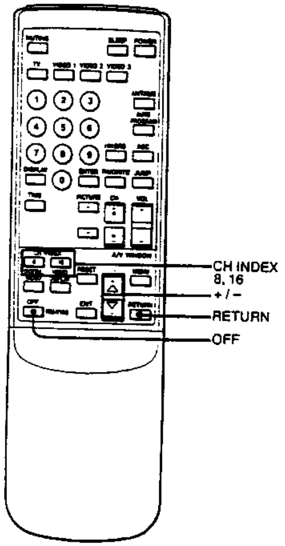


2 Press RETURN.



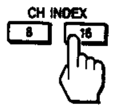
The chosen channel will appear as the main picture.

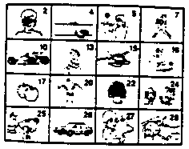
To cancel CH INDEX 8, press OFF.



To display 16 different channels as window pictures

Press CH INDEX 16.

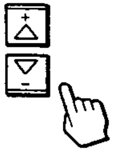


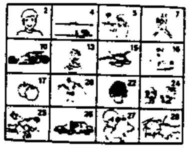


Programs of 16 different TV channels appear in numerical sequence as window pictures. Each time you press CH INDEX 16, the next 16 channels will appear.

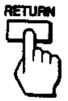
To watch one of the window pictures

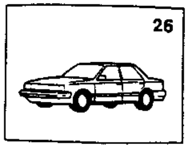
1 Position ▷ in the window screen of the desired channel by pressing the + / – buttons.





2 Press RETURN.



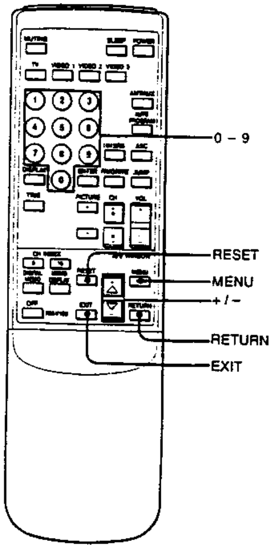


The chosen channel will appear.

To cancel CH INDEX 16, press OFF.

1-6. SETTING UP ON THE SCREEN

You can call up the on-screen menu and instructions on how to set the clock, to label each video input mode, or to caption the TV stations.



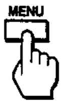
Notes

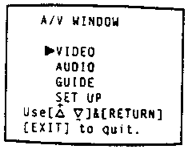
- If you unplug the TV, or if a power failure occurs, all settings will be erased from the TV's memory.
- If you have not set the clock correctly, the ON/OFF TIMER and CHANNEL BLOCK will not operate.

Setting the Clock

Example: To set the time to 3:15 PM, Monday.

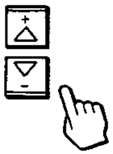
1 Press MENU

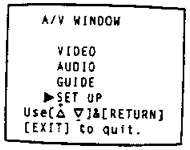




```
   A/V WINDOW

   ▶VIDEO
    AUDIO
    GUIDE
    SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

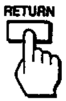
2 Press + / – until ▷ points to SET UP.

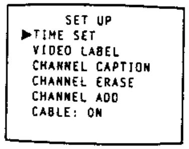




```
   A/V WINDOW

    VIDEO
    AUDIO
    GUIDE
   ▶SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

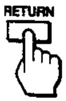
3 Press RETURN.

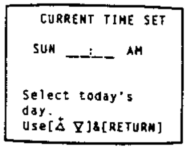




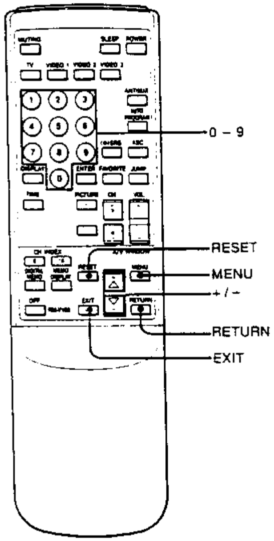
```
     SET UP
▶TIME SET
 VIDEO LABEL
 CHANNEL CAPTION
 CHANNEL ERASE
 CHANNEL ADD
 CABLE: ON
```

4 Press RETURN again to select "TIME SET".





```
  CURRENT TIME SET

 SUN  __:__  AM


Select today's
day.
Use[△ ▽]&[RETURN]
```

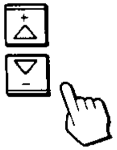


Note

On the clock
The internal clock of this TV operates on a 12-hour cycle. If you enter 24-hour cycle number, it will be cleared when you press RETURN.

12:00 AM stands for midnight.
12:00 PM stands for noon.

5 Press + / – until the day of the week you want to set appears.

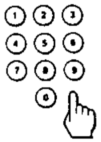


```
CURRENT TIME SET
MON __:__ AM

Select today's
day.
Use[△ ▽]&[RETURN]
```

6 Press RETURN.

```
CURRENT TIME SET
MON__:__ AM

Set the current
time.
Use[ 0-9 ]&[RETURN]
```

7 Press 0 – 9 to set the desired time.
(For 3:15, press 0 3 1 5)

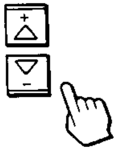


```
CURRENT TIME SET
MON _3 : 15 AM

Set the current
time.
Use[ 0-9 ]&[RETURN]
```

8 Press RETURN.

```
CURRENT TIME SET
MON 3 : 15 AM

Set AM or PM.
Use[△ ▽]&[RETURN]
```

9 Press + / – to set AM or PM.



```
CURRENT TIME SET
MON 3 : 15 PM

Set AM or PM.
Use[△ ▽]&[RETURN]
```

10 Press RETURN.

```
CURRENT TIME SET
MON 3 : 15 PM

Current time is
set. Thank you.
```

The moment you press RETURN, the clock starts.
Now the time is set. The indication will disappear after approx. 10 seconds.

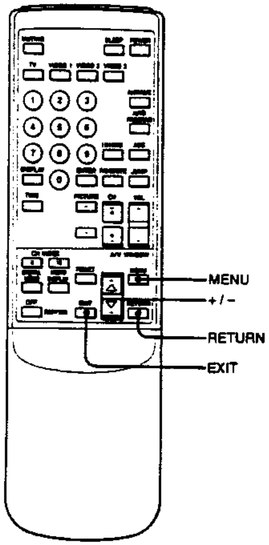
Notes

To restore the normal picture
Press EXIT.

To clear the current time setting
Display the "CURRENT TIME SET" page and press RESET, then EXIT.

To reset the setting
Display the "CURRENT TIME SET" page and press RESET, then repeat steps 5 to 10.

To display the current time
Press TIME.

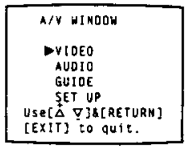


Labeling Each Video Input Mode

You can label each input mode as VTR, S VIDEO, or LD to easily identify what equipment is connected to which input terminal.
When you enter the label, the TV automatically adjusts itself internally to enhance the picture quality for the labeled equipment.

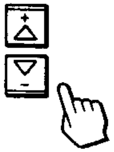
Example: Label VIDEO 1 with S VIDEO.

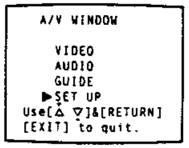
1 Press MENU



```
A/V WINDOW

▶VIDEO
 AUDIO
 GUIDE
 SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

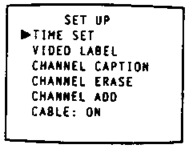
2 Press +/– until ▷ points to "SET UP".





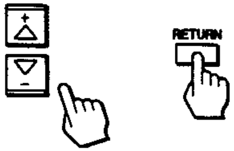
```
A/V WINDOW

 VIDEO
 AUDIO
 GUIDE
▶SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

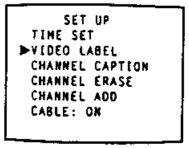
3 Press RETURN.



```
 SET UP
▶TIME SET
 VIDEO LABEL
 CHANNEL CAPTION
 CHANNEL ERASE
 CHANNEL ADD
 CABLE: ON
```

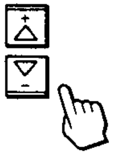
4 Press +/– until ▷ points to "VIDEO LABEL", then RETURN.

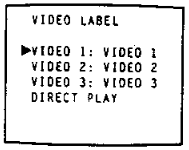




```
 SET UP
 TIME SET
▶VIDEO LABEL
 CHANNEL CAPTION
 CHANNEL ERASE
 CHANNEL ADD
 CABLE: ON
```

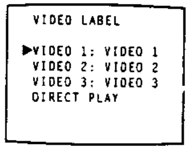
5 Press +/ – until ▷ points to your desired input terminal.





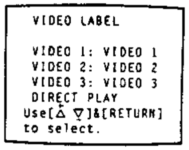
```
VIDEO LABEL

▶VIDEO 1: VIDEO 1
 VIDEO 2: VIDEO 2
 VIDEO 3: VIDEO 3
 DIRECT PLAY
```

6 Press RETURN.



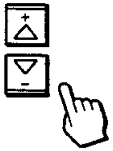
```
VIDEO LABEL

▶VIDEO 1: VIDEO 1
 VIDEO 2: VIDEO 2
 VIDEO 3: VIDEO 3
 DIRECT PLAY
```

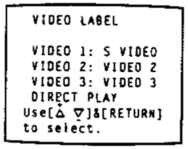
7 Press RETURN.
Then "VIDEO 1" on the right turns red.



```
VIDEO LABEL

VIDEO 1: VIDEO 1
VIDEO 2: VIDEO 2
VIDEO 3: VIDEO 3
DIRECT PLAY
Use[△ ▽]&[RETURN]
to select.
```

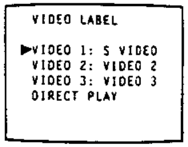
8 Press +/– until the label you want appears.





```
VIDEO LABEL

VIDEO 1: S VIDEO
VIDEO 2: VIDEO 2
VIDEO 3: VIDEO 3
DIRECT PLAY
Use[△ ▽]&[RETURN]
to select.
```

9 Press RETURN.

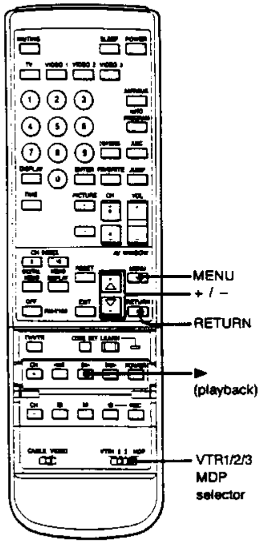


```
VIDEO LABEL

▶VIDEO 1: S VIDEO
 VIDEO 2: VIDEO 2
 VIDEO 3: VIDEO 3
 DIRECT PLAY
```

If you want to label VIDEO 2 or 3, repeat steps 5–9.
Now, VIDEO LABEL is set.

Note

To restore the normal picture
Press EXIT.

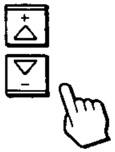


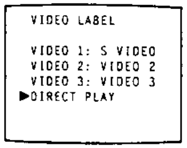
Direct Play Function

With this function, you can change the input mode from TV to VCR by pressing the ► (playback) button on the supplied Remote Commander.
Example: When you connect your VCR to the VIDEO 1 IN jacks and control the VCR when the VTR1/2/3 MDP selector is set to VTR2 on the supplied Remote Commander.
First, the TV needs to memorize the VTR selector position on the Remote Commander which you use to control your VCR.

Stepl-4: Same as in "Labeling Each Video Input Mode" (page 48.)

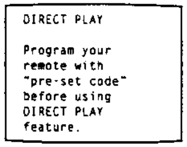
5 Press +/ – until ⊳ points to "DIRECT PLAY".





```
VIDEO LABEL

VIDEO 1: S VIDEO
VIDEO 2: VIDEO 2
VIDEO 3: VIDEO 3
►DIRECT PLAY
```

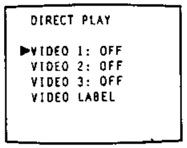
6 Press RETURN.



```
DIRECT PLAY

Program your
remote with
"pre-set code"
before using
DIRECT PLAY
feature.
```

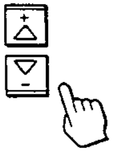
If you have not set the manufacturer's code yet, see page 60 and set it. (When you use Sony video equipment, this setting is not necessary. For details, see page 59)

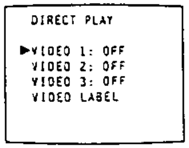
7 Press RETURN



```
DIRECT PLAY

►VIDEO 1: OFF
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL
```

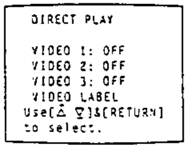
8 Press +/ – until ⊳ points to your VCR input.
(If you connected your VCR to VIDEO 1 IN jacks, make ⊳ point to "VIDEO 1".)





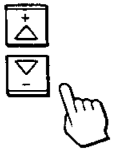
```
DIRECT PLAY

►VIDEO 1: OFF
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL
```

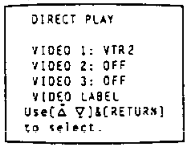
9 Press RETURN.



```
DIRECT PLAY

VIDEO 1: OFF
VIDEO 2: OFF
VIDEO 3: OFF
VIDEO LABEL
Use[△ ▽]&[RETURN]
to select.
```

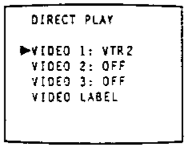
10 Press +/ – until the VTR selector mode that you control your VCR at appears.
(If you control your VCR at VTR 2 in the Remote Commander, make "VTR 2" appear.)





```
DIRECT PLAY

VIDEO 1: VTR2
VIDEO 2: OFF
VIDEO 3: OFF
VIDEO LABEL
Use[△ ▽]&[RETURN]
to select.
```

11 Press RETURN.



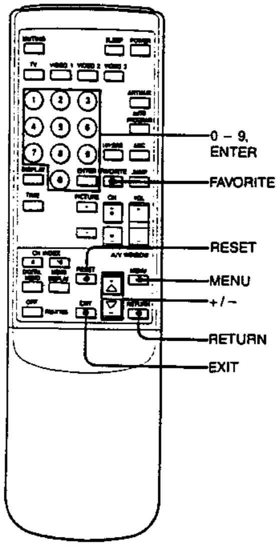
```
DIRECT PLAY

►VIDEO 1: VTR2
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL
```

If you connect other video equipment, repeat steps 8-11.
Now, direct play setting is set.

When you are watching a VCR picture, as you press the ► (playback) button, the input mode changes from TV to VCR.
Example: When you set the VTR1/2/3 MDP selector to VTR2 and press ►, the input mode changes to the VCR that is connected to the VIDEO 1 IN jacks.

Note

To restore the normal picture
Press EXIT.



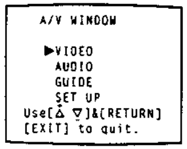
Note
When the memory is full, the indication "The memory is full, sorry" will appears.
In this case, clear the unnecessary settings.

Captioning the TV Stations

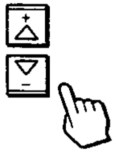
You can assign a station name using up to four characters to up to 32 program positions to identify the received channel for display on the screen together with the program position number.

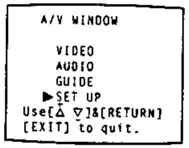
Example: To assign "ABC" to channel 15.

1 Press MENU.

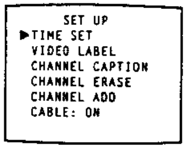

```
    A/V WINDOW

  ▶VIDEO
   AUDIO
   GUIDE
   SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

2 Press +/– until ▷ points to "SET UP".

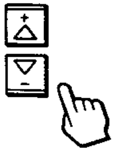


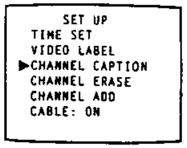

```
    A/V WINDOW

    VIDEO
    AUDIO
    GUIDE
  ▶SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

3 Press RETURN.

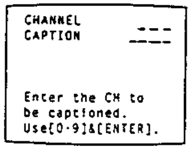

```
    SET UP
▶TIME SET
 VIDEO LABEL
 CHANNEL CAPTION
 CHANNEL ERASE
 CHANNEL ADD
 CABLE: ON
```

4 Press +/– until ▷ points to "CHANNEL CAPTION".

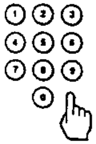


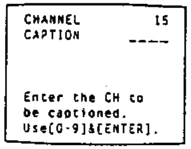

```
    SET UP
 TIME SET
 VIDEO LABEL
▶CHANNEL CAPTION
 CHANNEL ERASE
 CHANNEL ADD
 CABLE: ON
```

5 Press RETURN.

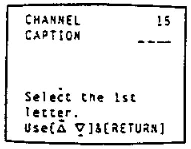

```
CHANNEL        ---
CAPTION       ----


Enter the CH to
be captioned.
Use[0-9]&[ENTER].
```

6 Press 0 – 9 to set the channel to be captioned.
(For 15, press 1, then 5.)

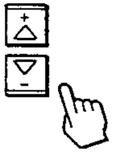


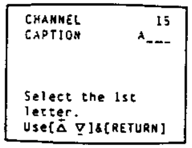

```
CHANNEL         15
CAPTION       ----


Enter the CH to
be captioned.
Use[0-9]&[ENTER].
```

7 Press ENTER.

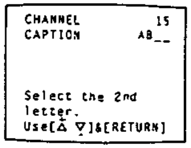

```
CHANNEL         15
CAPTION       ----


Select the 1st
letter.
Use[△ ▽]&[RETURN]
```

8 Press +/– until the letter or number you want appears.

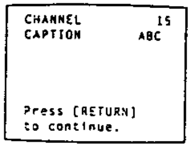



```
CHANNEL         15
CAPTION       A___


Select the 1st
letter.
Use[△ ▽]&[RETURN]
```

9 Press RETURN.


```
CHANNEL         15
CAPTION       AB__


Select the 2nd
letter.
Use[△ ▽]&[RETURN]
```

10 Repeat steps 8 and 9 for selecting other letters.
(For "ABC", select "B", "C", then select blank.)
Now the CHANNEL CAPTION is set.
If you want to caption more stations, press RETURN.

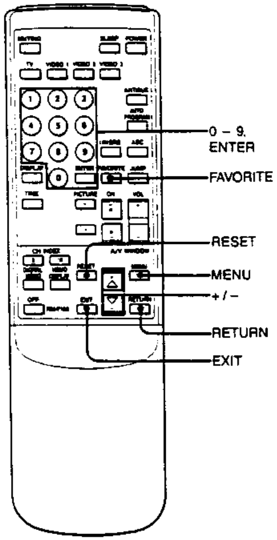

```
CHANNEL         15
CAPTION        ABC



Press [RETURN]
to continue.
```

Notes

To restore the normal picture
Press EXIT.

To clear the setting
Display the "CHANNEL CAPTION" page and press RESET, then EXIT.

1-7. SETTING TIMER-ACTIVATED FUNCTIONS



Notes

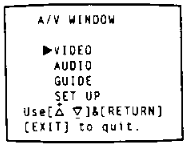
To restore the normal picture
Press EXIT.

To clear the setting
Display the "ON/OFF TIMER" page and press RESET, then EXIT.

Setting the ON/OFF Timer

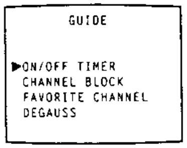
You can make three programs of your choice appear on the screen at the desired time with the ON/OFF timer.
Example: Set the timer to turn on the TV to channel 8 at 1:30 AM for 3 hours every Monday through Friday as PROGRAM 1.

1 Press MENU.



```
     A/V WINDOW

    ▶VIDEO
     AUDIO
     GUIDE
     SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

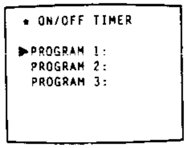
2 Press +/– until ▷ points to "GUIDE", then RETURN.



```
        GUIDE


▶ON/OFF TIMER
 CHANNEL BLOCK
 FAVORITE CHANNEL
 DEGAUSS
```

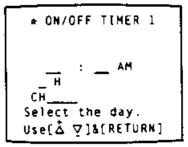
* "DEGAUSS" appears on KV-29XBR85 only.

3 Make sure ▷ points to "ON/OFF TIMER", then press RETURN.



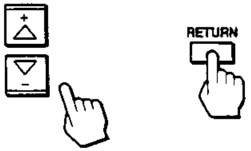
```
 * ON/OFF TIMER

▶PROGRAM 1:
 PROGRAM 2:
 PROGRAM 3:
```

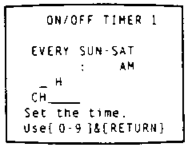
4 Make sure ▷ points to "PROGRAM 1" (for PROGRAM 2 and 3, press +/– to select the desired one), then press RETURN.



```
  * ON/OFF TIMER 1


    __  : __ AM
    _ H
  CH____
 Select the day.
 Use[△ ▽]&[RETURN]
```

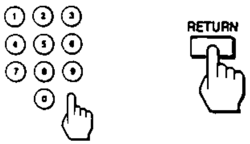
5 Press +/– until the day of the week you want appears, then press RETURN.

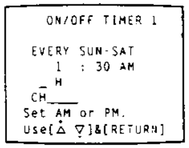




```
    ON/OFF TIMER 1

  EVERY SUN-SAT
         :    AM
    _ H
  CH____
 Set the time.
 Use[ 0-9 ]&[RETURN]
```

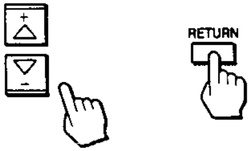
6 Press 0 – 9 to set the time you want,
(For 1:30, press 0 1 3 0.)
then press RETURN.

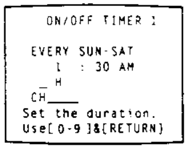




```
    ON/OFF TIMER 1

  EVERY SUN-SAT
     1  : 30 AM
    _ H
  CH____
 Set AM or PM.
 Use[△ ▽]&[RETURN]
```

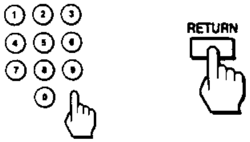
7 Press +/– to set AM or PM, then RETURN.

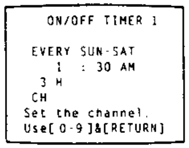




```
    ON/OFF TIMER 1

  EVERY SUN-SAT
     1  : 30 AM
    _ H
  CH____
 Set the duration.
 Use[ 0-9 ]&[RETURN]
```

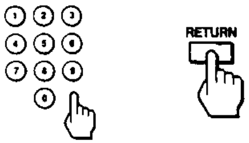
8 Press 1 – 9 to set the duration, then RETURN.

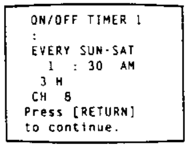




```
    ON/OFF TIMER 1

  EVERY SUN-SAT
     1  : 30 AM
    3 H
  CH
 Set the channel.
 Use[ 0-9 ]&[RETURN]
```

9 Press 0 – 9 to set the channel number you want, then RETURN.



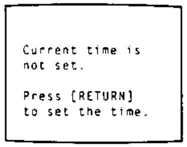


```
 ON/OFF TIMER 1
 :
 EVERY SUN-SAT
   1  : 30  AM
  3 H
  CH  8
 Press [RETURN]
 to continue.
```

If you want to set program 2 or 3, press RETURN and repeat steps 4 – 9.

Notes

If you have not set the CURRENT TIME yet
The following message will appear.
Go back to page 45 to set the clock.

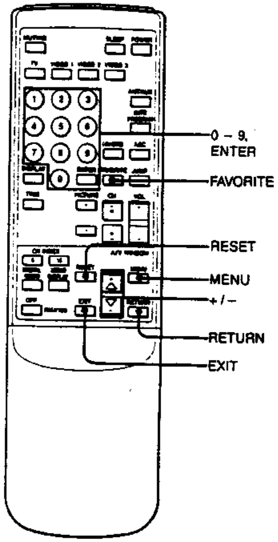


```
Current time is
not set.

Press [RETURN]
to set the time.
```

The selectable days of the week
When you press +, the selectable days of the week will appear in the following order:

EVERY SUN-SAT
↓
EVERY MON-FRI
↓
SUNDAY
↓
MONDAY
↓
TUESDAY
↓
WEDNESDAY
↓
THURSDAY
↓
FRIDAY
↓
SATURDAY
↓
EVERY SUNDAY
↓
EVERY MONDAY
↓
EVERY TUESDAY
↓
EVERY WEDNESDAY
↓
EVERY THURSDAY
↓
EVERY FRIDAY
↓
EVERY SATURDAY

Press – for reverse direction.



Notes

To restore the normal picture
Press EXIT.

To clear the setting
Display the "CHANNEL BLOCK" page and press RESET, then EXIT.

To reset the setting
Display the "CHANNEL BLOCK" page and repeat the steps from the beginning.

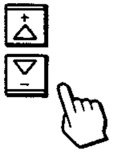
Setting the Channel Block

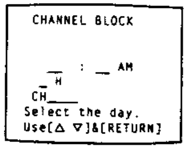
CHANNEL BLOCK prevents a channel from appearing on the screen for preset hours. We suggest you to use this function to prevent children from watching undesirable programs.

Example: Set the CHANNEL BLOCK at 4:00 PM (for 1 hour), every Saturday, on channel 12.

Step 1 – 2: Same as in "Setting the ON/OFF Timer".

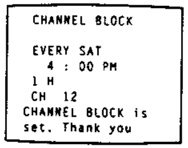
3 Press + / – until ▷ points to "CHANNEL BLOCK", then RETURN.





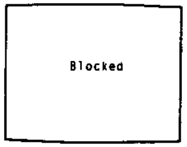
```
CHANNEL BLOCK

  __ : __ AM
 _
 H
CH___
Select the day.
Use[△ ▽]&[RETURN]
```

Step 5* – 9: Same as in "Setting the ON/OFF Timer." (See page 54.)
* Step 4 is not necessary for the channel block operation.



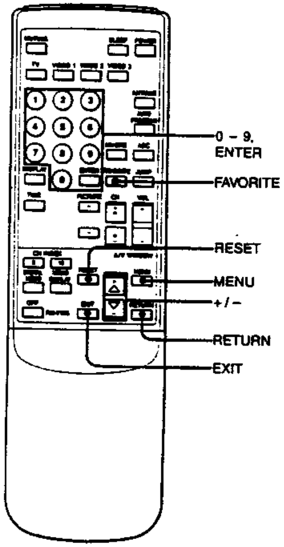
```
CHANNEL BLOCK

EVERY SAT
  4 : 00 PM
1 H
CH  12
CHANNEL BLOCK is
set. Thank you
```

Now CHANNEL BLOCK is set.
The picture of the selected channel will be blocked from viewing and the sound will be muted, at the preset time. A red "Blocked" indication will appear on the screen while the channel is blocked.



```
Blocked
```

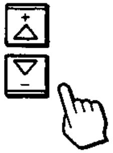
1-8. SETTING YOUR FAVORITE CHANNELS

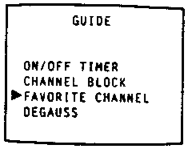


By setting your favorite channels (maximum 5 channels), you will be able to choose them quickly just by pressing the FAVORITE button. First, store your favorite channels.

Step 1 – 2: Same as in "Setting the ON/OFF Timer".

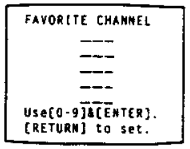
3 Press +/– until ▷ points to "FAVORITE CHANNEL".





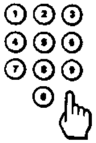
```
      GUIDE

 ON/OFF TIMER
 CHANNEL BLOCK
▶FAVORITE CHANNEL
 DEGAUSS
```

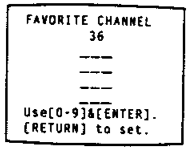
4 Press RETURN.



```
FAVORITE CHANNEL
      ---
      ---
      ---
      ---
      ---
Use[0-9]&[ENTER].
[RETURN] to set.
```

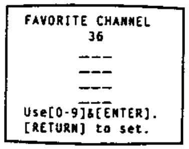
5 Press 0 – 9 to set the channel number you want.



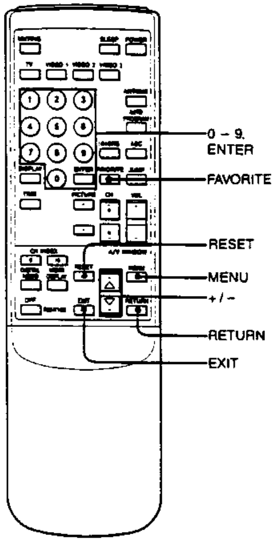


```
FAVORITE CHANNEL
      36
      ---
      ---
      ---
      ---
Use[0-9]&[ENTER].
[RETURN] to set.
```

6 Press ENTER.



```
FAVORITE CHANNEL
      36
      ---
      ---
      ---
      ---
Use[0-9]&[ENTER].
[RETURN] to set.
```



Notes

To restore the normal picture
Press EXIT.

To clear the setting
Display the "FAVORITE CHANNEL" page and press RESET, then EXIT.

To reset the setting
Display the "FAVORITE CHANNEL" page and repeat the steps from the beginning.

7 Repeat steps 5 and 6 for the rest of the channels.
If you do not want to store any more channels, you can go to step 8.

```
FAVORITE CHANNEL
       36
       _2
       ---
       ---
       ---
Use[0-9]&[ENTER].
[RETURN] to set.
```

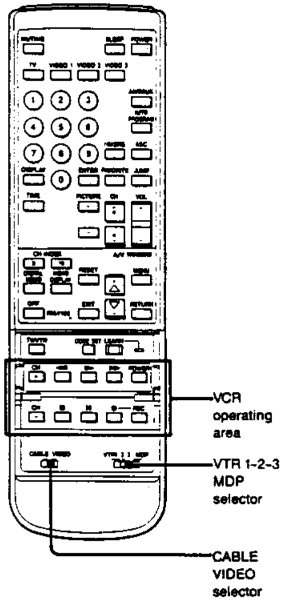
8 Press RETURN.
Now the FAVORITE CHANNEL is set.

```
FAVORITE CHANNEL
       36
        2
       42
       55
       19
FAVORITE CH is
set. Thank you.
```

After setting your favorite channels
Each time you press FAVORITE, the channels will appear sequentially.

1-9. USING THE PROGRAMMABLE REMOTE COMMANDER

You can operate other remote controlled video equipment using the supplied RM-Y106/Y107/Y108 Remote Commander. The supplied Remote Commander is programmed to operate Sony video equipment. In addition, you can reprogram this Remote Commander to operate non-Sony equipment.



Note

After setting other manufacture's code
You cannot operate Sony video equipment with the supplied Remote Commander without setting the Sony.

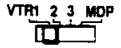
Operating Sony Video Equipment

With the supplied Remote Commander, you can operate Sony video cassette recorders (Beta, 8mm VHS) and video disc players (including multi disc player) without programming.

1 Set the CABLE/VIDEO selector to VIDEO.

CABLE
VIDEO

2 Set the VTR 1/2/3/MDP selector according to the video equipment you want to operate.



If you want to operate A:	then set to
Beta, ED Beta VCR	VTR 1
8mm VCR	VTR 2
VHS VCR	VTR 3
Video disc player	MDP

3 Use the buttons in the video operating area to operate the video equipment.

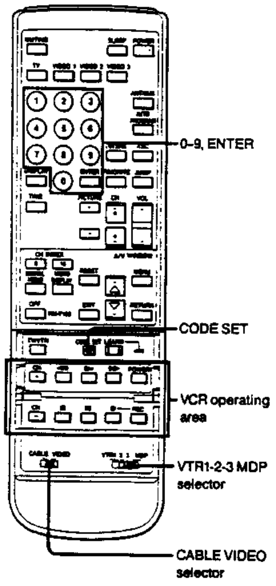
Operating a video cassette recorder

To record	Press ●.
To start playback	Press ▶.
To stop	Press ■.
To advance the tape rapidly	Press ▶▶.
To rewind the tape	Press ◀◀.
To freeze a picture	Press ❚❚. To resume normal playback, press again.
To view the picture at a fast speed to find a particular scene	Keep pressing ▶▶ or ◀◀ during playback. To resume normal playback, release the button.

If the equipment does not have a certain function, the corresponding button on this Remote Commander is not effective.

Operating a video disc player

To start playback	Press ▶.
To stop	Press ■.
To freeze a picture	Press ❚❚. To resume normal playback, press again. This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the video disc player will go into the standby mode if ❚❚ is pressed.
To view the picture at a fast speed to find a particular scene	Keep pressing ▶▶ or ◀◀ during playback. To resume normal playback, release the button.



Operating Non-Sony or Sony Video Equipment (Pre-programmed Function)

The supplied Remote Commander has pre-programmed functions. Thus you can operate non-Sony video equipment with the supplied Remote Commander by setting the manufacturer's code.

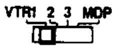
Setting the manufacturer's code

1 Set the CABLE/VIDEO selector to VIDEO.

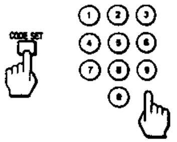
CABLE VIDEO

2 Set the VTR1/2/3/MDP selector to the position that you want to operate the equipment at.

By employing the VTR 1/2/3 settings, you can use your remote commander to operate up to 3 pieces of equipment.
Note: If you also use Sony video equipment, set other maker's equipment to a position not being used for your Sony video equipment.



3 While pressing CODE SET, press manufacture's code numbers (See table).



4 Press ENTER.

The LEARN indicator turns green and then goes off. (A long beep)
Now you can operate the non-Sony video equipment with the supplied Remote Commander.

5 Use the video operating buttons to operate video equipment.

Manufacturers and their code numbers (video cassette recorder)

Manufacturer	Code number
Sony	01, 02, 03
Canon	05
Emerson	22, 30, 33
Fisher	10, 11, 12
Funai	29
General electoric	05
Goldstar	25
Hitachi	07, 08
JVC	16
Magnavox	05, 06, 09
Mitsubishi	18, 19, 26, 27
Multitech	29
NEC	16, 23, 31
Panasonic	05
Philco	05, 06
Philips	05, 06, 09
Quasar	05
RCA	07, 08
Samsung	24, 32
Sanyo	11, 15
Scott	21
Sharp	13, 14
Shintom	34
Sylvania	05, 06, 09
Symphonic	29
Teknika	28, 29
Toshiba	20, 21
Tote vision	25
Zenith	17

Manufacturers and their code numbers (video disc player)

Manufacturer	Code number
Sony	04
Kenwood	58
Magnavox	52
Maranz	54
Mitsubishi	51
Panasonic	55
Philips	52
Pioneer	51
RCA	51
Sanyo	57
Sharp	56
Yamaha	53

Notes

On the code number

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- If you enter a new code number, the code number previously entered at that setting will be erased.

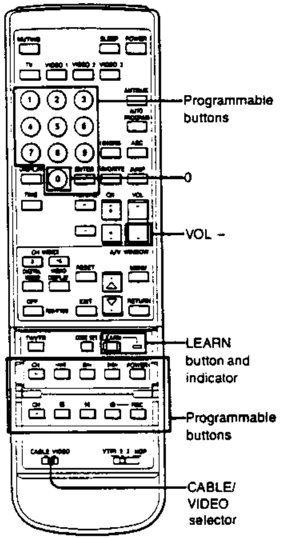
On Sony's code number

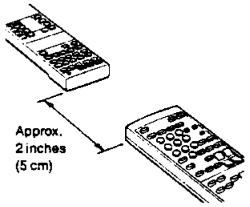
The number and operable equipment are as follows:

01 : Beta
02 : 8 mm
03 : VHS
04 : MDP

For your convenience

You can write the operable manufacturer and its code number in the supplied seal and stick it on the rear of the Remote Commander.





Note

For accurate learning
Do not move the remote commanders during the learning process.

Operating non-Sony or Sony Audio and Video Equipment (Learning Function)

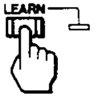
With this feature, you can "teach" any of the programmable buttons to operate one function each of another remote commander. Use the Learning function to program the supplied remote commander to operate non-Sony and Sony audio equipment, your remote controlled cable decoder box, and video equipment of manufacturers not listed in the chart on p. 61.

1 Set the CABLE/VIDEO selector to CABLE.

CABLE
VIDEO

2 Face this Remote Commander with the other remote commander head to head, approximately 2 inches (5 cm) apart.

3 Press LEARN.
The LEARN indicator lights up in green.



4 Momentarily press the button of this Remote Commander on which a function is to be memorized.
The LEARN indicator lights up in red. (A short beep).
Now it's ready for learning.

The Remote Commander beeps repeatedly if there is inappropriate operation. Try again from this step.

5 Keep pressing the function button of the other remote commander until the LEARN indicator turns to green again. (A long beep)
If this does not happen, the learning process has not been completed. Repeat steps 4 and 5.

6 To program other buttons, repeat steps 4 - 5.

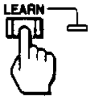
7 Press LEARN.
The LEARN indicator lights up in red, then goes off.
Now the setting is complete.

Clearing memorized functions

1 Set the CABLE/VIDEO selector to CABLE.

CABLE
VIDEO

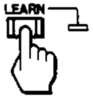
2 Press LEARN.
The LEARN indicator lights up in green.



3 Press VOLUME –.
Keep pressing the VOLUME – button and "0" at once until 6 short beeps are heard.

VOL
+
–
1
2
3
4
5
6
7
8
9
0

4 Press LEARN.
Now all the memorized functions are cleared.



The learning function will not work in the following cases:

Problems:	Solutions:
There is a fluorescent lamp or equipment which emits infrared energy.	Move the remote commanders away from such infrared sources.
The batteries are exhausted.	Replace all the batteries with new ones.
There is an obstacle between the Remote Commanders, or the Remote Commanders are not positioned head to head and exactly aligned.	Position the Remote Commanders properly.

Notes

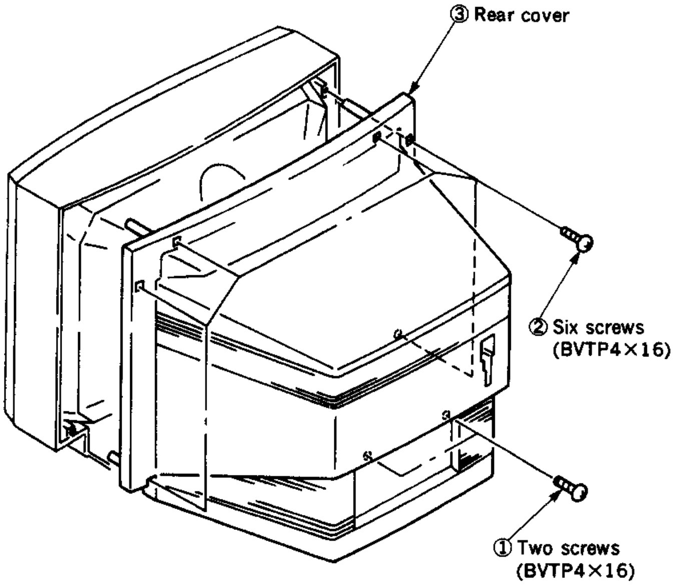
On learning Function
- When you clear the memorized functions, the buttons retain their factory set memory.
- Be sure to confirm that the functions have been memorized as a few commanders of other manufacturers are not compatible with this Remote Commander.
- Do not use the learning function for other than video and audio equipment.
- When operating equipment with learned functions, the selectors should be set to the same position as they were when the functions were memorized.
- When a new function is assigned to a button, the previous function is cleared automatically.
- When the memories are full, the LEARN indicator lights steadily if you try to memorize a new function.
  In such a case, set the USE/LEARN selector to USE to turn the indicator off, then clear the unnecessary functions.

Caution

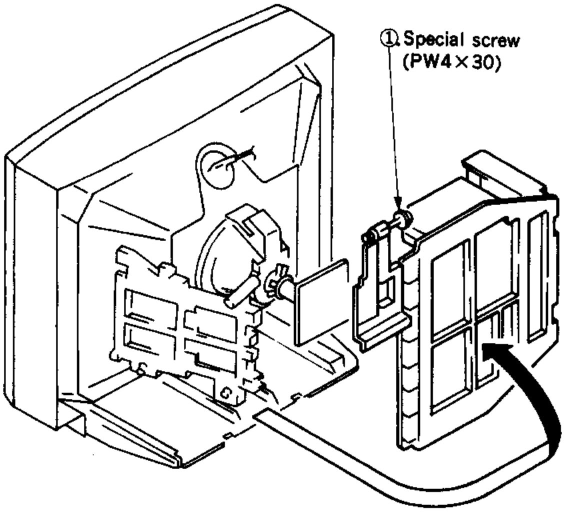
When replacing the batteries, do it within approximately 30 minutes. Otherwise, the memorized functions may be erased.

SECTION 2
DISASSEMBLY

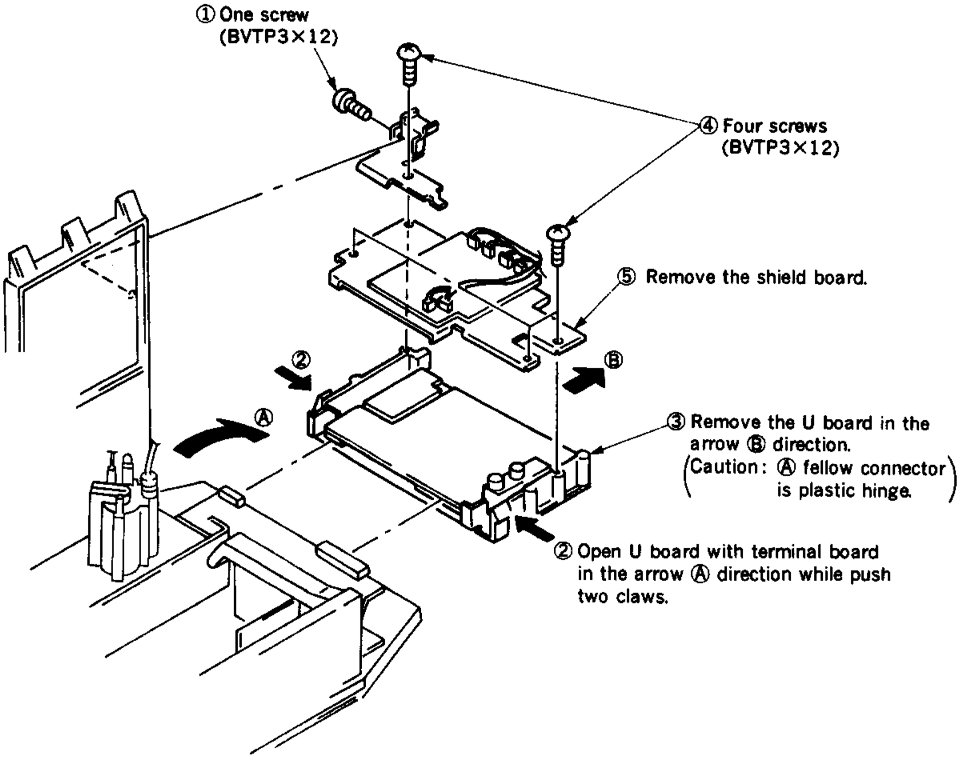
2-1. REAR COVER REMOVAL


③ Rear cover
② Six screws
(BVTP4×16)
① Two screws
(BVTP4×16)

2-2. SERVICE POSITION


① Special screw
(PW4×30)

2-3. U BOARD REMOVAL

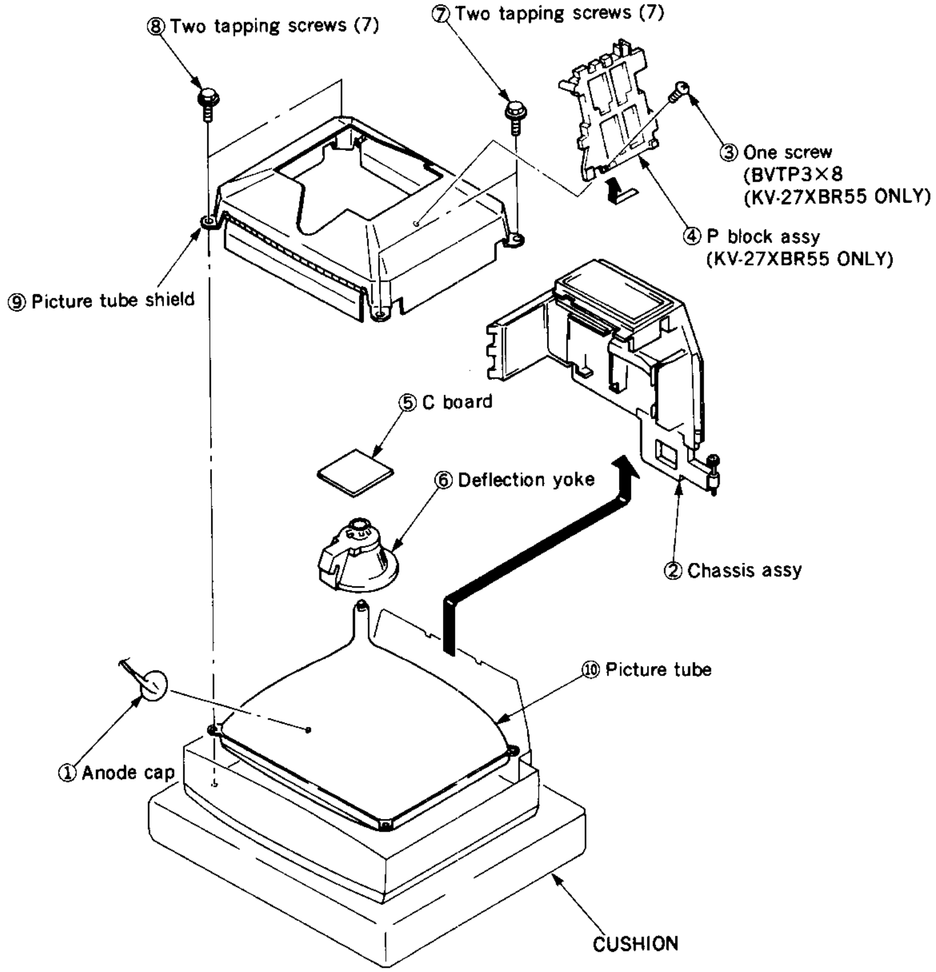

① One screw
(BVTP3×12)
④ Four screws
(BVTP3×12)
②
Ⓑ
Ⓐ

⑤ Remove the shield board.

③ Remove the U board in the arrow Ⓑ direction.
(Caution: Ⓐ fellow connector is plastic hinge.)

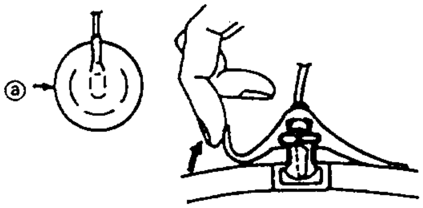
② Open U board with terminal board in the arrow Ⓐ direction while push two claws.

2-4. PICTURE TUBE REMOVAL

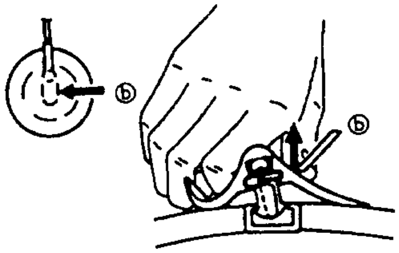

⑧ Two tapping screws (7)
⑦ Two tapping screws (7)
③ One screw (BVTP3×8 (KV-27XBR55 ONLY)
④ P block assy (KV-27XBR55 ONLY)
⑨ Picture tube shield
⑤ C board
⑥ Deflection yoke
② Chassis assy
⑩ Picture tube
① Anode cap
CUSHION

· REMOVAL OF ANODE-CAP

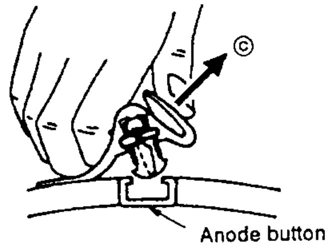
· REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.


ⓒ
Anode button

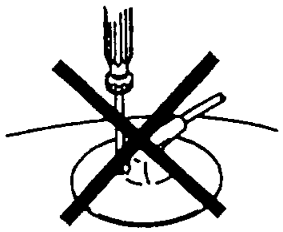
③ When one side of the rubber cap is separated from the anode button, the snode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

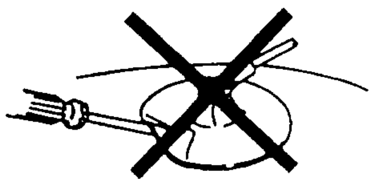
· HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

PICTURE control ············ 80%
BRIGHTNESS control ······ RESET position

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note: Test Equipment Required.

1. Color-bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter

Preparation:

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.2.
3. Turn the raster signal of the pattern generator to green.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are at the sides evenly. (Fig.3)
5. Move the deflection yoke forward, and adjust so that entire screen becomes green. (Fig.1)
6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. When landing at the corners is not right, adjust by using the disk magnets. (Fig.4)

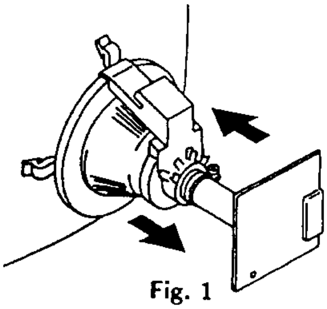
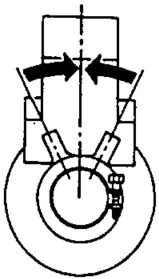
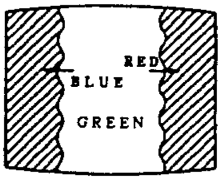


Fig. 1



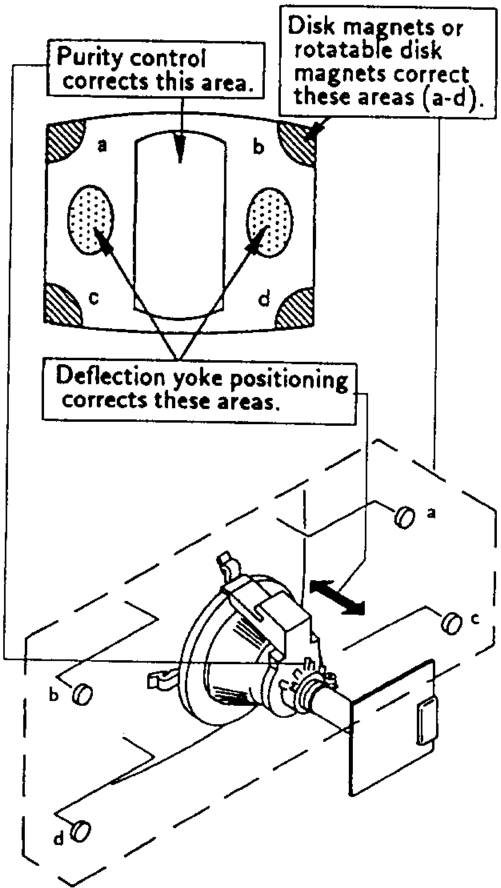
purity control

Fig. 2



RED
BLUE
GREEN

Fig. 3



Purity control corrects this area.
Disk magnets or rotatable disk magnets correct these areas (a-d).
a
b
c
d
Deflection yoke positioning corrects these areas.
a
c
b
d

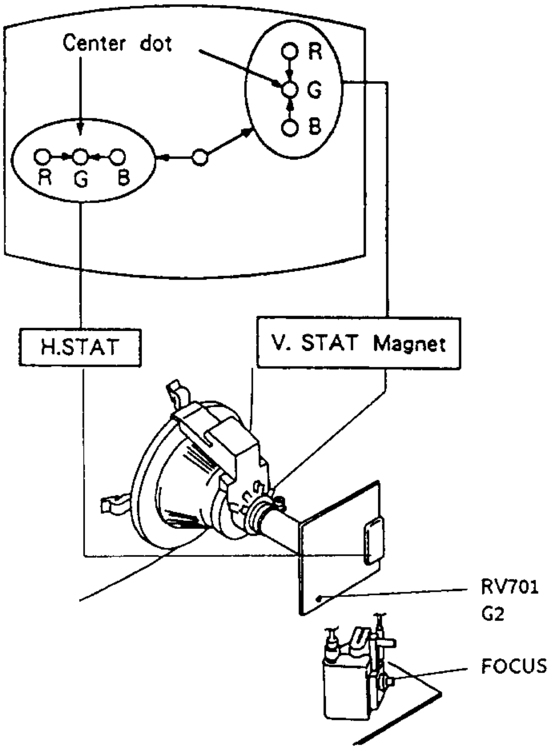
Fig. 4

3-2. CONVERGENCE

Preparation

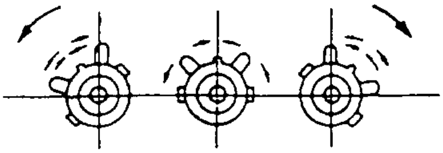
- Before starting, perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.

(1) Horizontal and Vertical Static Convergence

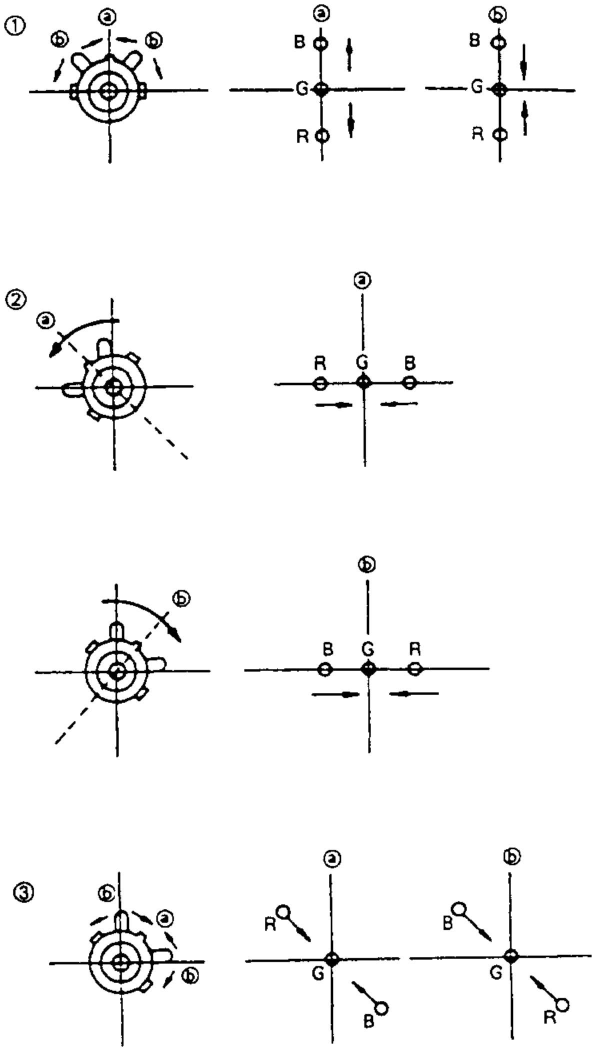


1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen. (Horizontal movement)
2. Adjust V.STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
3. If the red, green and blue dots do not converge in the center of the screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)

- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.

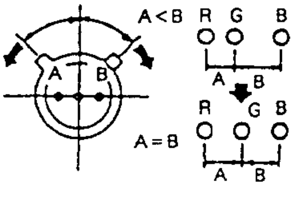


If the blue dot do not converge with red and green dots, perform following steps.

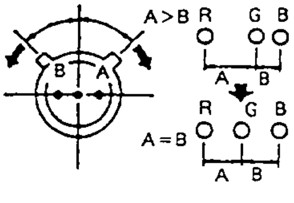
- HMC and VMC correction for BMC (Hexapole) Magnet

1. HMC (Horizontal Mis-convergence) correction and motion of the Electron Beam with the BMC Magnet.

HMC correction (A)

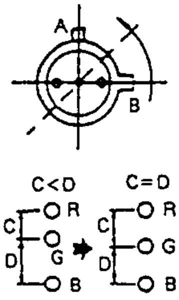


HMC correction (B)

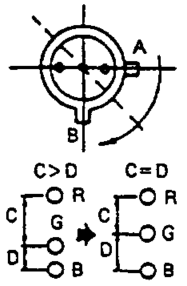


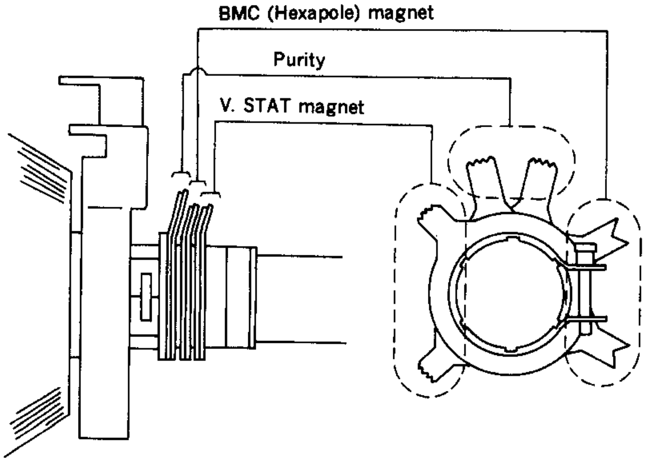
2. VMC (Vertical Mis-convergence) correction and motion of the Electron Beam with the BMC Magnet.

VMC correction (A)


A
B
C<D
C=D
C
D
R
G
B
R
G
B

VMC correction (B)


A
B
C>D
C=D
C
D
R
G
B
R
G
B

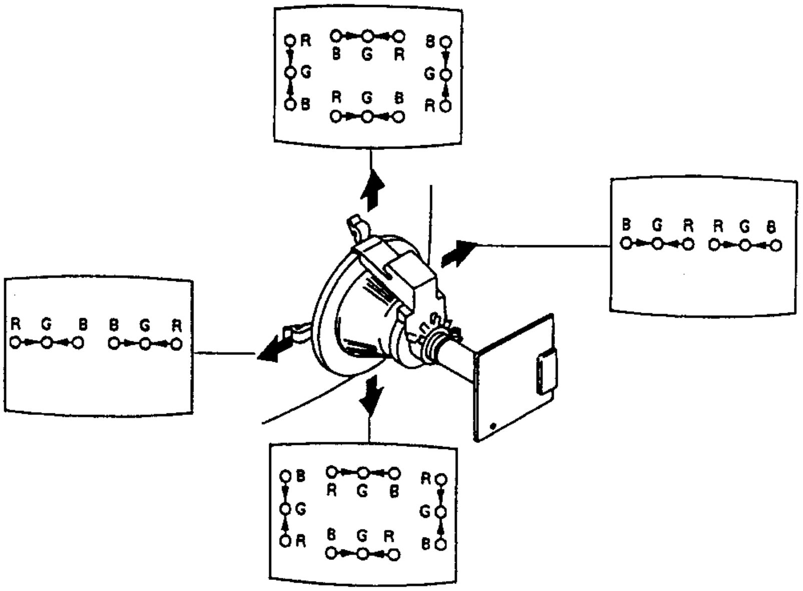

BMC (Hexapole) magnet
Purity
V. STAT magnet

(2) Dynamic Convergence Adjustment

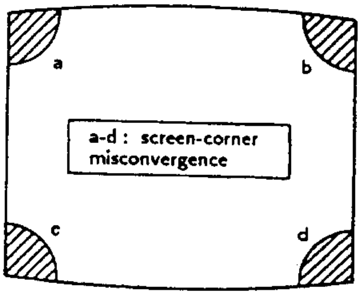
Perpartion :

- Before starting perform Horizontal and Vertical Static convergence adjustment.

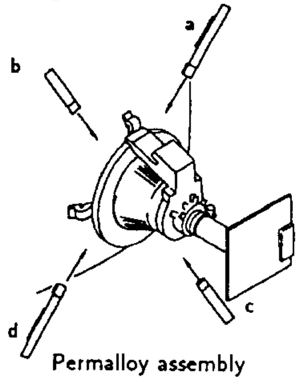
1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.


R G B
B G R
R G B
B G R
R G B
B G R
B G R
R G B
R G B R G B
B G R R G B
B G R
R G B
B G R
R G B
B G R
R G B

(3) Screen-corner Convergence


a
b
c
d
a-d : screen-corner misconvergence

Affix a Permalloy ass'y corresponding to the misconverged areas.


a
b
c
d
Permalloy assembly

3-3. FOCUS

1. Tune in an off-air signal.
2. PICTURE →control to 80%.
3. Adjust the focus VR on A board so that the focus at the center of the screen is optimum.
   (A magenta ring will appear if the focus is adjusted only in the center of the screen. Adjust evenly throughout the entire screen.)

3-4. G2. WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT (RV701)

1) Set the PICTURE and BRIGHTNESS to normal.
2) Confirm G1 voltage is within 30.0±5V.
3) Apply DC voltage of 180V to the cathodes of R, G and B from DC stabilized power source.
4) While watching the picture, adjust the G2 control (RV701) to the just the retrace line disappears.

2. WHITE BALANCE ADJUSTMENT

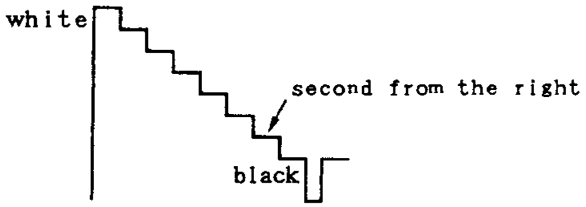
(Using the Remote Commander)

1) Set to service mode.
2) Press VIDEO →RESET to normal
3) Input an entire white signal.
4) Set the PICTURE to minimum.
5) Select S BRT with 1 and 4, and then set the level to minimum with 3 and 6
6) Select G CUT and B CUT with 1 and 4.
   And adjust the level with 3 and 6 for the best white balance.
7) Set the PICTURE to maximum.
8) Select G AMP and B AMP with 1 and 4, and adjust the level with 3 and 6 for the best white balance.

3. SUB BRIGHT ADJUSTMENT

(Using the Remote Commander)

1) Set to service mode.
2) Input a staircase signal of black and white from the pattern generator.
3) BRIGHTNESS ··· RESET
   PICTURE ········· minimum
4) Select S BRT with 1 and 4, and adjust SUB BRIGHT level with 3 and 6 so that the stripe second from the right is dimly lit.



SECTION 4
SAFETY RELATED ADJUSTMENTS

⊠ R549 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ◪ on the schematic diagram).
IC301, PM501, R549, R564

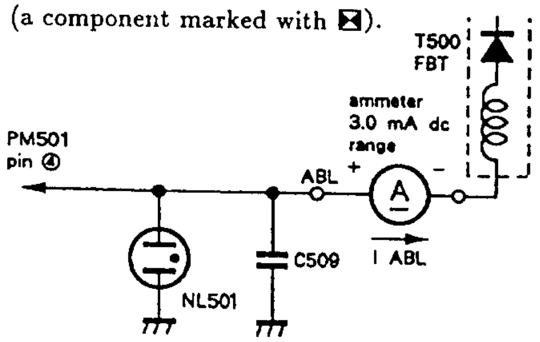
①

1. Preparation before confirmation
   1) Remove R663 on the F board and connect a variable resistor (RV1: about 4.7kΩ−10kΩ) between pin ① of IC653 and B+ line.
   2) Supply 120±2.0V AC to with variable autotransformer.
2. Hold-down operation confirmation
   1) Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to 1620 ±50μA with PICTURE and BRIGHT etc controls.
   2) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than 142.5V DC whereby the raster disappears during operation of hold-down circuit.

      NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.
   3) Turn the POWER switch ON, and receive dot signals and adjust ABL current to 150±20μA with PICTURE and BRIGHT etc controls.
   4) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than 145.0V DC whereby the raster disappears during operation of hold-down circuit.

      NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.
3. Hold-down readjustment

   When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R549 (a component marked with ⊠).



⊠ R567 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ◪ on the schematic diagram).
IC301, IC653, PM501, D539, C556, R556, R564, R567, R663, T500

②

1. Preparation before confirmation
   1) Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHT controls to maximum.
   2) Confirm that voltage of the check terminal of pin ② of F-5 (F BOARD) is more than 127.0V DC when the set is operating normally with 120.0± 2.0V AC supply.
2. Hold-down operation confirmation
   1) Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to 1620 ±50μA with PICTURE and BRIGHT etc controls.
   2) Apply DC voltage of over 140.0V DC gradually to the check terminal of pin ② of F-5 (F BOARD) via 1T40 from the DC stabilized power source.
      Confirm that the minimum voltage is less than 145.0V DC whereby the raster disappears during operation of hold-down circuit.

      NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.
   3) Turn the POWER switch ON, and receive dot signals and adjust ABL current to 150±20μA with PICTURE and BRIGHT etc controls.
   4) Apply DC voltage of over 140.0V gradually to the check terminal of pin ② of F-5 (F BOARD) via 1T40 from the DC stabilized power source.
      Confirm that the minimum voltage is less than 145.0V DC whereby the raster disappears during operation of hold-down circuit.

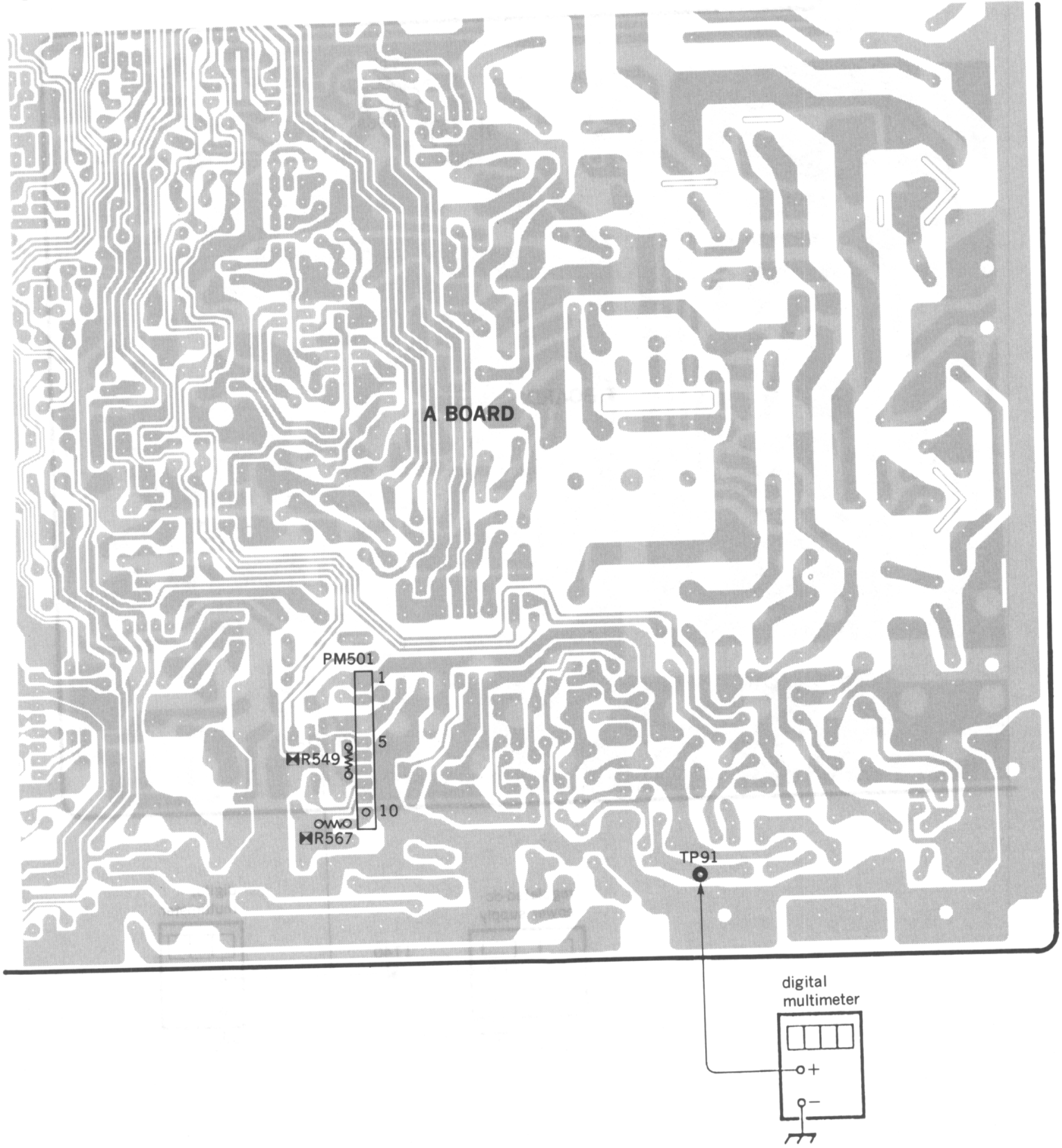
      NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.
3. Hold-down readjustment

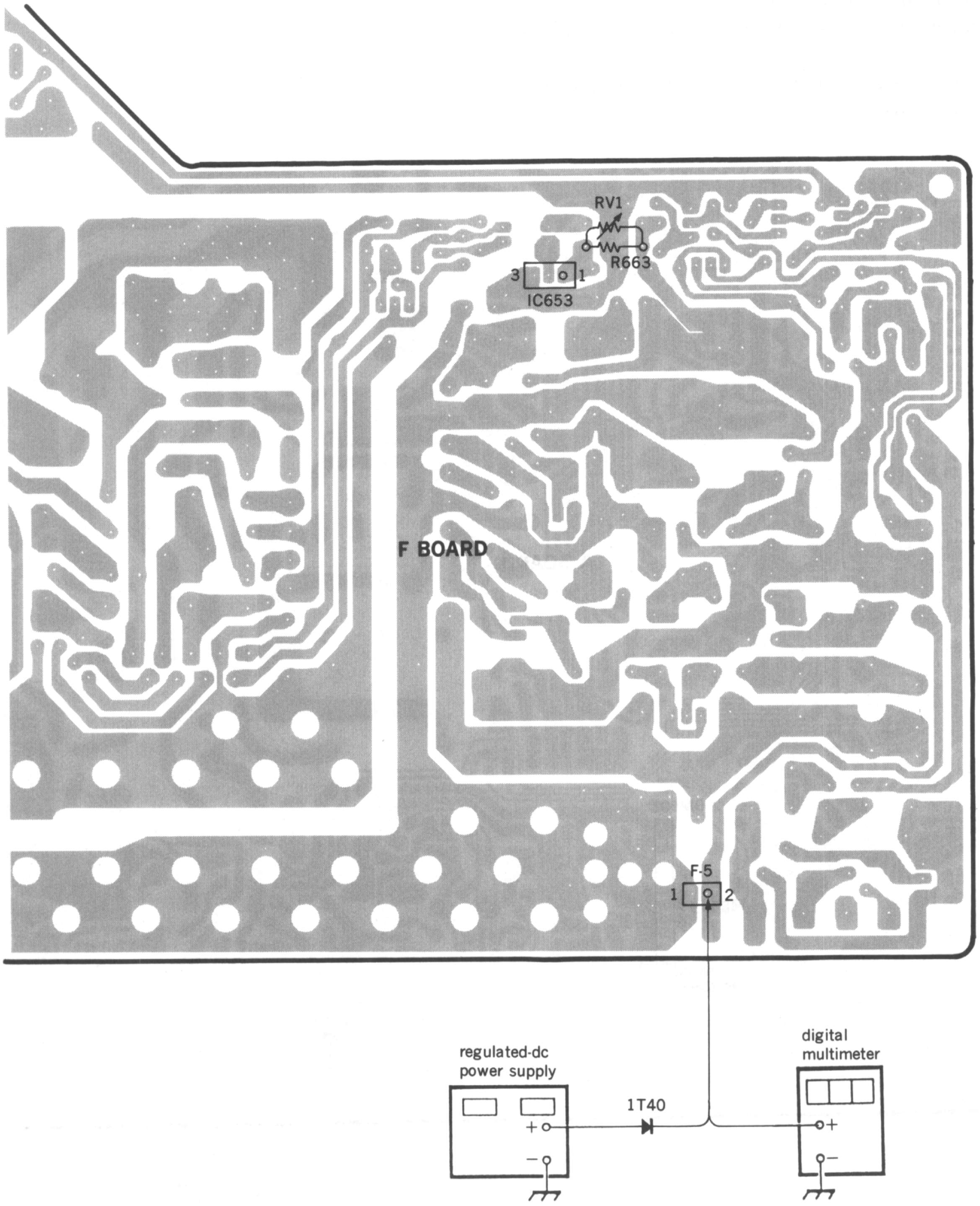
   When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R567 (a component marked with ⊠).

B+ VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC653 and R663.

1) Supply $130^{+1.0}_{-0}$V AC to with variable auto-transformer.
2) Receive entirely monoscope signal.
3) Set the PICTURE control and the BRIGHT controls in to initial reset.
4) Confirm the voltage of TP91 is less than 137.0V DC.
5) If step 4) is not satisfied, replace IC653 and R663 repeat above steps.


A BOARD
PM501
1
5
10
R549
R567
TP91
digital multimeter
+
−


RV1
R663
3
1
IC653
F BOARD
F-5
1
2
regulated-dc power supply
+
−
1T40
digital multimeter
+
−

SECTION 5
CIRCUIT ADJUSTMENTS

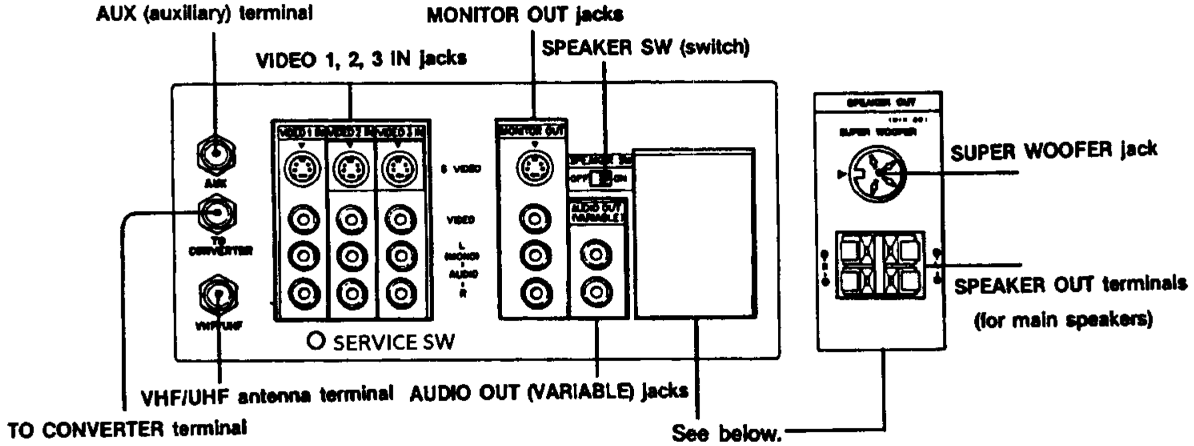
5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

Use of Remote Commander (RM-Y106, Y107) can be performed all circuit adjustments about this model.

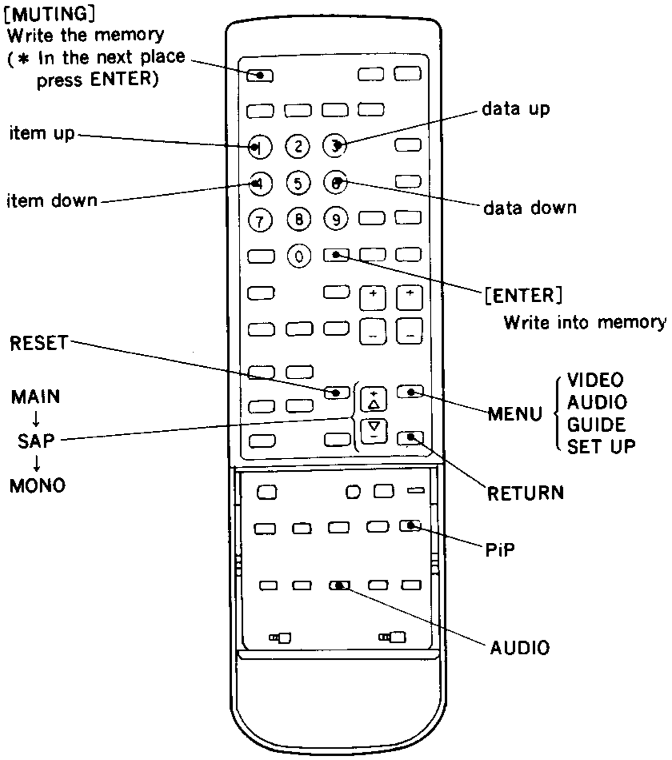
[BASIC ADJUSTMENTS]

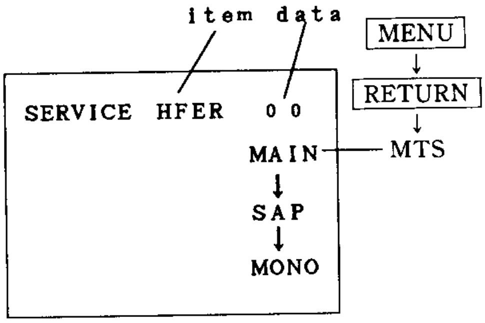
1. METHOD OF SETTING THE SERVICE MODE

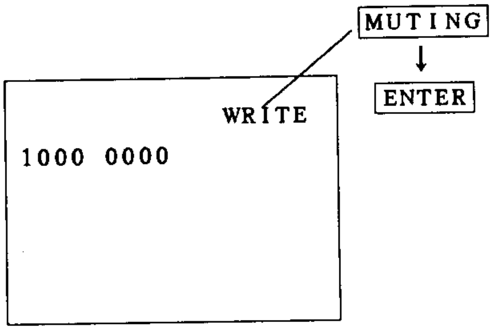
1) Press POWER button on the Remote Commander while pressing switch on the rear of the set.


AUX (auxiliary) terminal
MONITOR OUT jacks
VIDEO 1, 2, 3 IN jacks
SPEAKER SW (switch)
SUPER WOOFER jack
SPEAKER OUT terminals
(for main speakers)
O SERVICE SW
VHF/UHF antenna terminal
AUDIO OUT (VARIABLE) jacks
TO CONVERTER terminal
See below.

2. ADJUST BUTTONS AND INDICATOR


[MUTING]
Write the memory
(* In the next place press ENTER)
item up
item down
data up
data down
[ENTER]
Write into memory
RESET
MAIN
↓
SAP
↓
MONO
MENU
VIDEO
AUDIO
GUIDE
SET UP
RETURN
PiP
AUDIO


item data
SERVICE HFER 00
MAIN
↓
SAP
↓
MONO
MENU
↓
RETURN
↓
MTS


MUTING
↓
ENTER
WRITE
1000 0000

3. AN ITEM OF ADJUSTMENT

ITEM	NAME REGISTER	
HFRE	VP	H-FREQUENCE 1
VFER	VP	V-FREQUENCE 1
VPOS	VP	V-SHIFT
VSIZ	VP	V-SIZE
VLIN	VP	V-LINEARITY
VSCO	VP	S-CORRECTION
HPOS	VP	H-PHASE
HSIZ	VP	H-SIZE
PAMP	VP	PIN AMP.
CPIN	VP	CORNER PIN
PPHA	VP	PIN PHASE
VCOM	VP	V-COMP
GAMP	VP	GREEN AMP.
BAMP	VP	BLUE AMP.
GCUT	VP	GREEN CUT OFF.
BCUT	VP	BLUE CUTOFF
CROM	VP	CHROMA TRAP
SPIX	VP	PICTURE
SHUE	VP	HUE
SCOL	VP	COLOR
SBRT	VP	BRIGHT
RGBP	VP	RGB PICTURE
MPX	AP	ATT
FILO	AP	I 1
DEEM	AP	I 2
STEV	AP	OSC 1
SAPV	AP	OSC 2
PILO	AP	PILOT
SEP	AP	WIDE BAND
VD	AP	SPECTRAL
LVOL	AP	VOLUME-L
RVOL	AP	VOLUME-R
SHAR	VP	SHARPNESS
DISP		③PWM OUTPUT

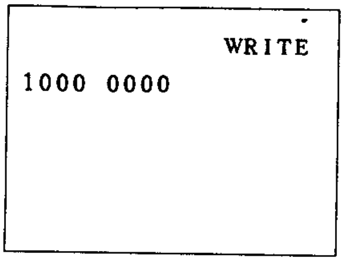
4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press POWER button on the commander) in the next place, press POWER button again, hereupon it becomes TV mode.

5. METHOD OF WRITE FOR MEMORY

1) Set to Service Mode.
2) Press 1 (UP) and 4 (DOWN), select an item of adjustments.
3) Press MUTING button indicate WRITE (RED) on screen.
4) Press ENTER button to write for memory. (At this time WRITE (YELLOW) is indicated on screen.)

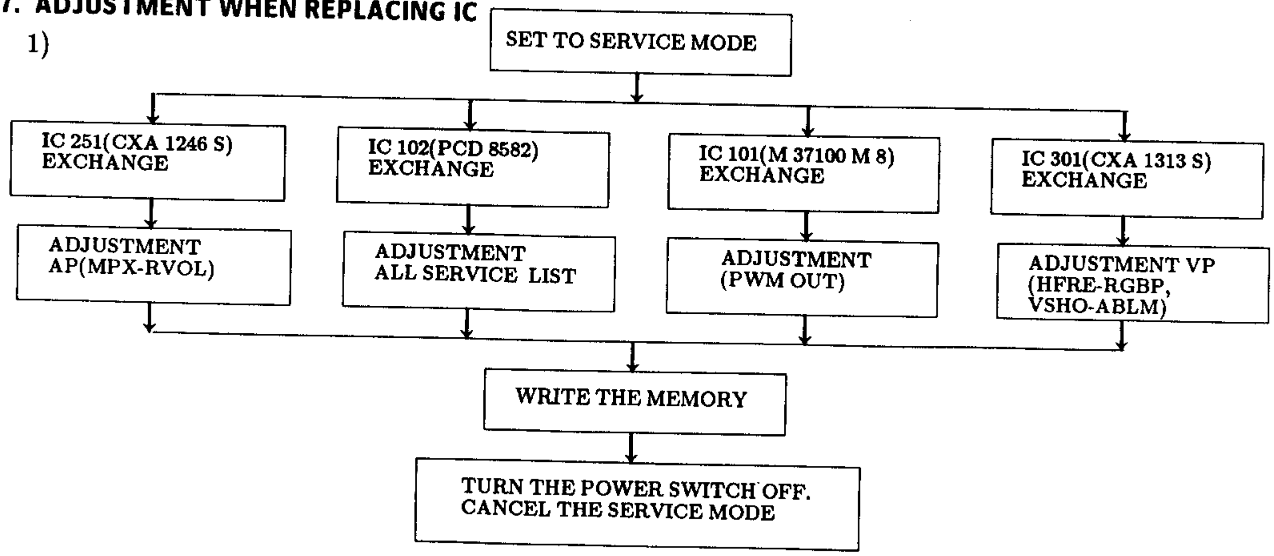
6. MEMORY WRITE CONFIRMATION METHOD


WRITE
1000 0000

1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again, confirm they were adjusted.

7. ADJUSTMENT WHEN REPLACING IC

1)


SET TO SERVICE MODE
IC 251(CXA 1246 S) EXCHANGE
IC 102(PCD 8582) EXCHANGE
IC 101(M 37100 M 8) EXCHANGE
IC 301(CXA 1313 S) EXCHANGE
ADJUSTMENT AP(MPX-RVOL)
ADJUSTMENT ALL SERVICE LIST
ADJUSTMENT (PWM OUT)
ADJUSTMENT VP (HFRE-RGBP, VSHO-ABLM)
WRITE THE MEMORY
TURN THE POWER SWITCH OFF. CANCEL THE SERVICE MODE

NOTE : If service mode is canceled before writing into memory, the adjustment data is not recorded.
Please write into memory, after adjustment.

2) The following initial setting should always be performed when replacing the IC 102 (PCD 8582).

ITEM	NAME REGISTER		ADJUSTMENT
VSOM	VP	VSMO	0
AFC	VP	AFC 1.0	0
REF	VP	REF 1.0	2
ROFF	VP	OFF NR	1
GOFF	VP	OFF NG	1
BOFF	VP	OFF NB	1
ABLM	VP	ABLM	1
TEST	AP	T	0
DRGB	VP	DRGB	1

*Please with the memory each items by pressing MUTING → and then press ENTER.

5-2. CIRCUIT ADJUSTMENT

RF AGC ADJUSTMENT (IF BLOCK VR)

1)Input a color-bar signal.

2) Adjust AGC VR of IF 201 so that snow noise and cross-modulation disappear from the picture.

3) Confirm them at every channel.

H. FREQUENCY ADJUSTMENT (HFRE)

1) Set to Service Mode.

2) Input a color-bar signal.

3) Connect a frequency counter to base of Q 502.

4) Call the item of AFC, set to 3 level (free run).

5) Select HFRE with 1 and 4.

6) Adjut 3 and 6 to the 15.735± 60 Hz level.

7) Call the item of AFC again, adjust the level" 00 ".

8) Write into the memory by pressing MUTING → then ENTER.

V. FREQUENCY ADJUSTMENT (VFRE)

1) Set the Service Mode.

2) Receive an off-air signal (VIDEO IN → no signal).

3) Connect the frequency counter across pin ⑥ of A-81 connector and ground.

4) Select VFER with 1 and 4.

5) Adjust 3 and 6 to the 55 ±1 Hz.

6) Write the memory by pressing MUTING → then ENTER

CHROMA TRAP ADJUSTMENT (CROM)

1) Set to Service Mode.

2) Input a color-bar signal.

3) Select NOTCH (VIDEO condition), turn ON by pressing +. And then set the COLOR VR to maximum setting position and SHARPNESS control to center.

4) Connect an oscilloscope to TP47R (R OUT) on C board.

5) Select C ROM with 1 and 4, and then adjust 3.58MHz (CHROMA) ingredient is minimum with 3 and 6.

6) Write into the memory by pressing MUTING → then ENTER.

7) Set NOTCH to OFF, and make normal condition with VIDEO → then RESET.

SUB CONTRAST ADJUSTMENT (SPIX)

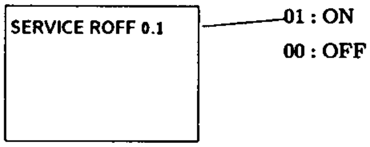
1) Set to Service Mode.

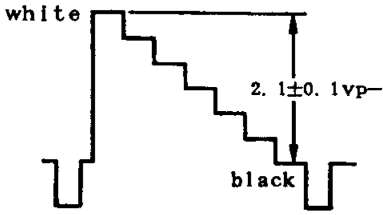
2) Input a color-bar signal. (75 IRE)

3) Set the conditions as follows.

PICTURE ····· MAX
COLOR ········ MIN
R OFF ·········· ON
G OFF ·········· OFF
B OFF ·········· OFF

Press VIDEO → – (L) (It becomes minimum).
Select 3 (ON) and 6 (OFF) with 1 and 4.





4) Connect an oscilloscope to TP47R (R OUT) on C board.

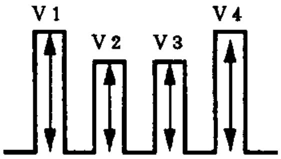
5) Adjust 3 and 6 to the 2.1 ± 0.1Vp-p level by selecting SPIX with 1 and 4.

6) Write the memory by pressing MUTING → then ENTER.

7) Return the following back to normal after adjustment.
G OFF ·········· ON
B OFF ·········· ON
COLOR ······· CENTER
PICTURE ···· 80%

SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

1) Input a color-bar signal.
2) Press VIDEO → then RESET to normal.
3) Set to Service Mode.
4) Connect an oscilloscope to TP47B (B OUT) on C board.
5) Adjust 3 and 4 to the V1=V4 and V2=V3 by select to SHUE and SCOL with 1 and 4.



6) Write into the memory by pressing MUTING → then ENTER.

V. SIZE ADJUSTMENT (VSIZ)

1) Set to Service Mode.
2) Input a cross-hatch signal.
3) Adjust 3 and 6 to the best vertical size by selecting VSIZ with 1 and 4 .
4) Write into the memory by pressing MUTING → then ENTER.

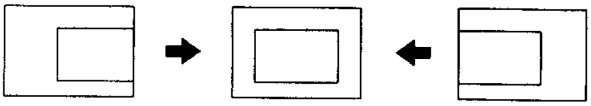
H. SIZE ADJUSTMENT (HSIZ)

1) Input a cross-hatch signal.
2) Press VIDEO → then RESET to normal.
3) Set to Service Mode.
4) Adjust 3 and 6 to best horizontal size by selecting HSIZ with 1 and 4.
5) Write into the memory by pressing MUTING → then ENTER.

H. CENTER ADJUSTMENT (HPOS)

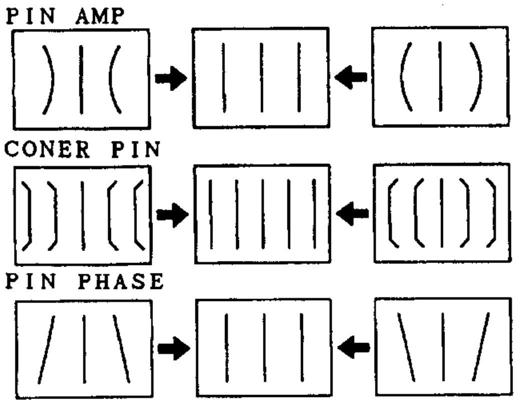
Note : Perform this adjustment after H.FREQ adjustment.

1) Input a cross-hatch signal.
2) Press VIDEO → then RESET to normal.
3) Set to Service Mode.
4) Select HPOS with 1 and 4.
5) Adjust 3 and 6 to the best picture.
6) Write into the memory by pressing MUTING → then ENTER.



PIN AMP, CORNER PIN AND PIN PHASE ADJUSTMENT

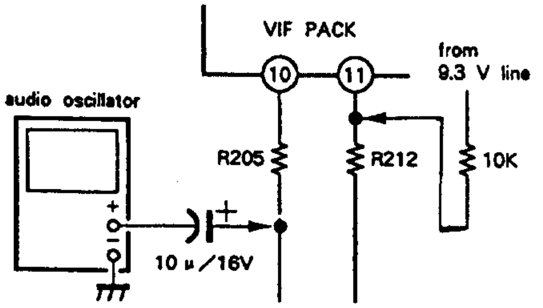
1) Input a coss-hatch signal.
2) Press VIDEO → then RESET to normal.
3) Set to Service Mode.
4) Select PAMP, CPIN and PPHA with 1 and 4.
5) Adjust 3 and 6 to the best picture.



6) Write the memory by MUTING → ENTER.

FILTER ADJUSTMENT (MPX FIOL)

1) Set to Service Mode.
2) Select to TEST with 1 and 4, set the data to "1". Then select MPX and change data to "08" .
3) Connect an audio oscillator to R205 using a capacitor (10μ F/16V), set frequency to 62.936kHz. And then, through the 10 kΩ resistor, feed 9.3 V into the R 212.



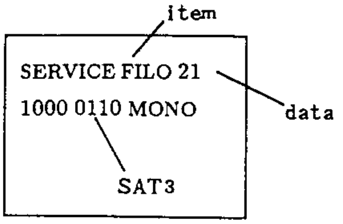
V_{41H} : SINE-WAVE 62.936 kHz
LEVEL 3.0 Vp-p

4) Make the data "00" by selecting FILO with [1] and [4]. And then, send up the data gradually by pressing [6]. Set the data to D1 before SAT3 changing to 1 from 0.

5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.

6) Adjust the data of FIOL to $\frac{D1+D2}{2}$.

7) Write into the memory by pressing [MUTING] → then [ENTER].



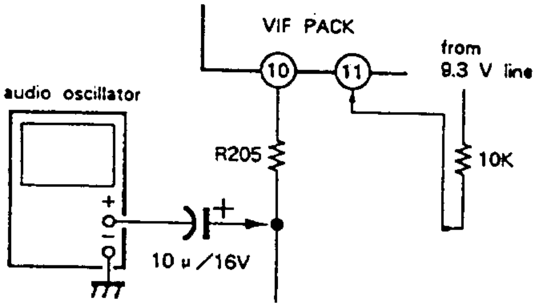
ST VCO ADJUSTMENT

1) Set to Service Mode.

2) Select TEST when [1] and [4], set the data to "1". And then press [MTS] to MONO.

3) Select MPX, set the data "8".

4) Connect an audio oscillator to R205 using electrolytic capacitor (10μF/16V) and appply the frequency Vst. Then, apply DC voltage to pin ⑪ of VIF pack using 10kΩ connect to 9.3V line.



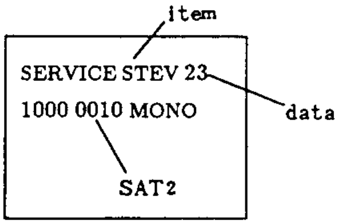
V_{ST}: SINE-WAVE 15.734 kHz
LEVEL 0.28 Vp-p

5) Select STEV with [1] and [4], set the data to "00" with [6]. And then, send up the data graduall. Set the data to D1 before SAT2 changes from 0 to 1.

6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.

7) Adjust the data of STEV to $\frac{D1+D2}{2}$.

8) Write into the memory by pressing [MUTING] → then [ENTER].



MPX IN LEVEL ADJUSTMENT

1) Set to Service Mode.

2) Select TEST with [1] and [4], set the data to "0" with [6]. And then press [MTS] to MONO.

3) Select MPX with [1] and [4], set the data to "08" with [3] and [6].

4) Write into the memory by pressing [MUTING] → then [ENTER].

PILOT CANCEL ADJUSTMENT

1) Set to the Service Mode.

2) Select TEST with [1] and [4], set the data to "0" with [6]. And then press [MTS] to MAIN.

3) Select PILO with [1] and [4], set the data to "08" with [3] and [6].

4) Write into the memory by pressing [MUTING] → then [ENTER].

SAP VCO f_0 ADJUSTMENT

1) Set to Service Mode.

2) Receive a stereo broadcast signal with SAP.

3) Select TEST with [1] and [4], set to the data to "0". And then, press to [MTS] to MAIN.

4) Connent a digital multimeter to pin ① of A-23 connector. This voltage reading will equal V 1.

5) Press MTS to SAP and this voltage will equal V 2.

6) Select SAPV with [1] and [4], adjust [3] and [6] so that V 2=V 1±0.03 VDC.

7) Write the memory by [MUTING] → [ENTER].

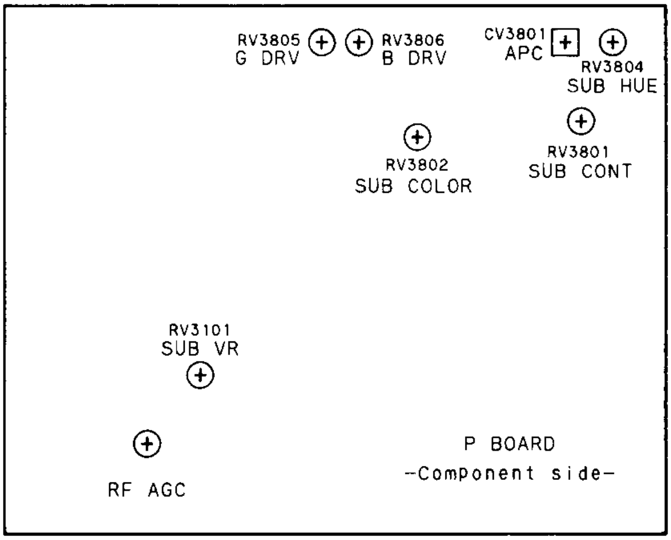
SEPARATION ADJUSTMENT

1) Set to Service Mode.

2) Press [MTS] to MAIN and receive a monoral broadcast signal.
In the next step, receive a stereo broadcast signal.

3) Select SEP and VD with [1] and [4], adjust [3] and [6] so that a clear stereo sound is effected.

P BOARD ADJUSTMENT (KV-27XBR55)

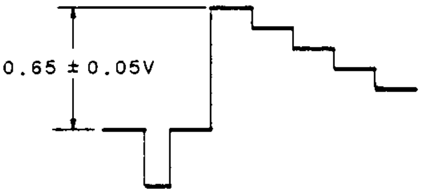

RV3805 G DRV
RV3806 B DRV
CV3801 APC
RV3804 SUB HUE
RV3802 SUB COLOR
RV3801 SUB CONT
RV3101 SUB VR
RF AGC
P BOARD
-Component side-

RF AGC ADJUSTMENT (IF BLOCK VR)

1) Receive a color-bar signal.
2) Set to PICTURE IN PICTURE mode.
3) Adjust AGC VR of IF3201 so that snow noise and cross-modulation disappear from the picture.
4) Confirm them at every channel.

SUB CONTRAST ADJUSTMENT (RV3801)

1) Receive a color-bar signal.
2) Set to PICTURE IN PICTURE mode.
3) Observe signal at pin ⑤(Y OUT)of P-3 connector an oscilloscope.
4) Adjust RV3801(SUB CONT)so that the signal level between white and pedestal becomes 0.65± 0.05V as shown.

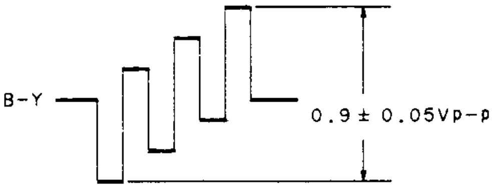


APC ADJUSTMENT (CV3801)

1) Set to PICTURE IN PICTURE mode.
2) Short circuit between pin㉓ of IC3803and ground with a jumper wire.
3) connect a frequency counter to pin ⑭ of IC3803.
4) Adjust CV3801 to obtain 3,579,545±40Hz.

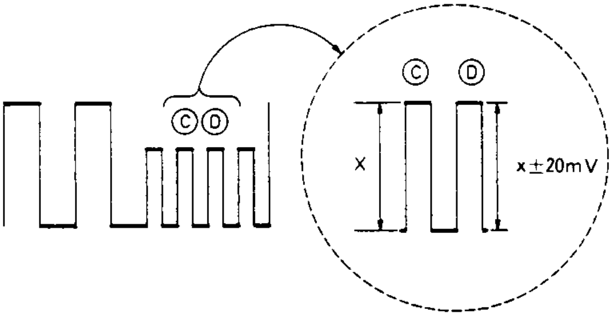
SUB COLOR ADJUSTMENT (RV3802)

1) Receive a color-bar signal
2) Set to PICTURE IN PICTURE mode.
3) COLOR………………RESET
   HUE …………………center
4) Connect an oscilloscope to pin ⑦ of P-3 connector.
5) Adjust RV3802 so that voltage is 0.9±0.05Vp-p.


B-Y
0.9 ± 0.05Vp-p

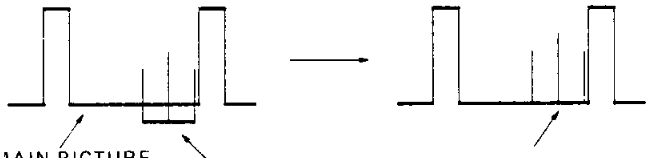
SUB HUE ADJUSTMENT (RV3804)

1) Receive a color-bar signal
2) Set to PICTURE IN PICTURE mode.(1/4 SIZE)
3) PICTURE……………80%
   BRIGHT………………center
   COLOR…………………center
   HUE……………………RESET
4) Connect an oscilloscope to pin ⑤ of P-32 connector.
5) Adjust RV3804 so that the ⓒ coincides with ⓓ as shown in figure.



WHITE BALANCE (sub picture)

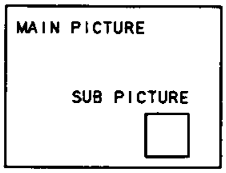
1) Adjust it after WHITE BALANCE adjusteed of main picture.
2) Set to PICTURE IN PICTURE mode.(1/4 SIZE)
3) PICTURE ················maximum
   BRIGHT····················maximum
   TORINITONE ···········low
4) Receive the white signal with both the main picture and the sub picture.
5) Connect an oscilloscope to KR of C BOARD and confirm that the white signal levels of sub picture and main picture are the seme.
6) Connect the oscilloscope to KG of C BOARD and adjust RV1805 so that the white signal level of the sub picture matches the white signal level of the main picture.
7) Connect the oscilloscope to KB of C BOARD and adjust RV1806 so that the white signal level of the sub picture matches the white signal level of the main picture.



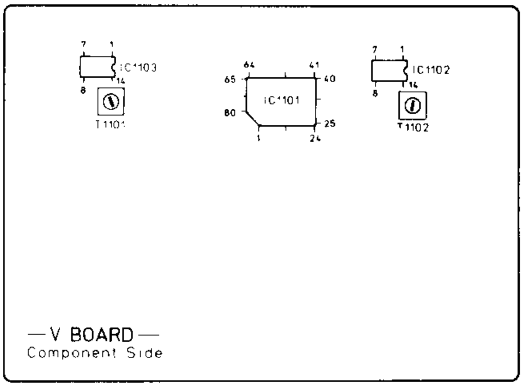
The white signal level of the sub picture should be with 200mV of that of the main picture

SUB AUDIO ADJUSTMENT (RV3101)

1) Receive an off-air signal.
2) Set to PICTURE IN PICTURE mode.
3) Select sub picture with press AUDIO button on the commander.
4) Adjust RV3101 so that the audio level of the sub picture becomes same the audio level of the main picture.



V BOARD ADJUSTMENTS (KV-27XBR55)



H. FREQ (main picture) (T1101)

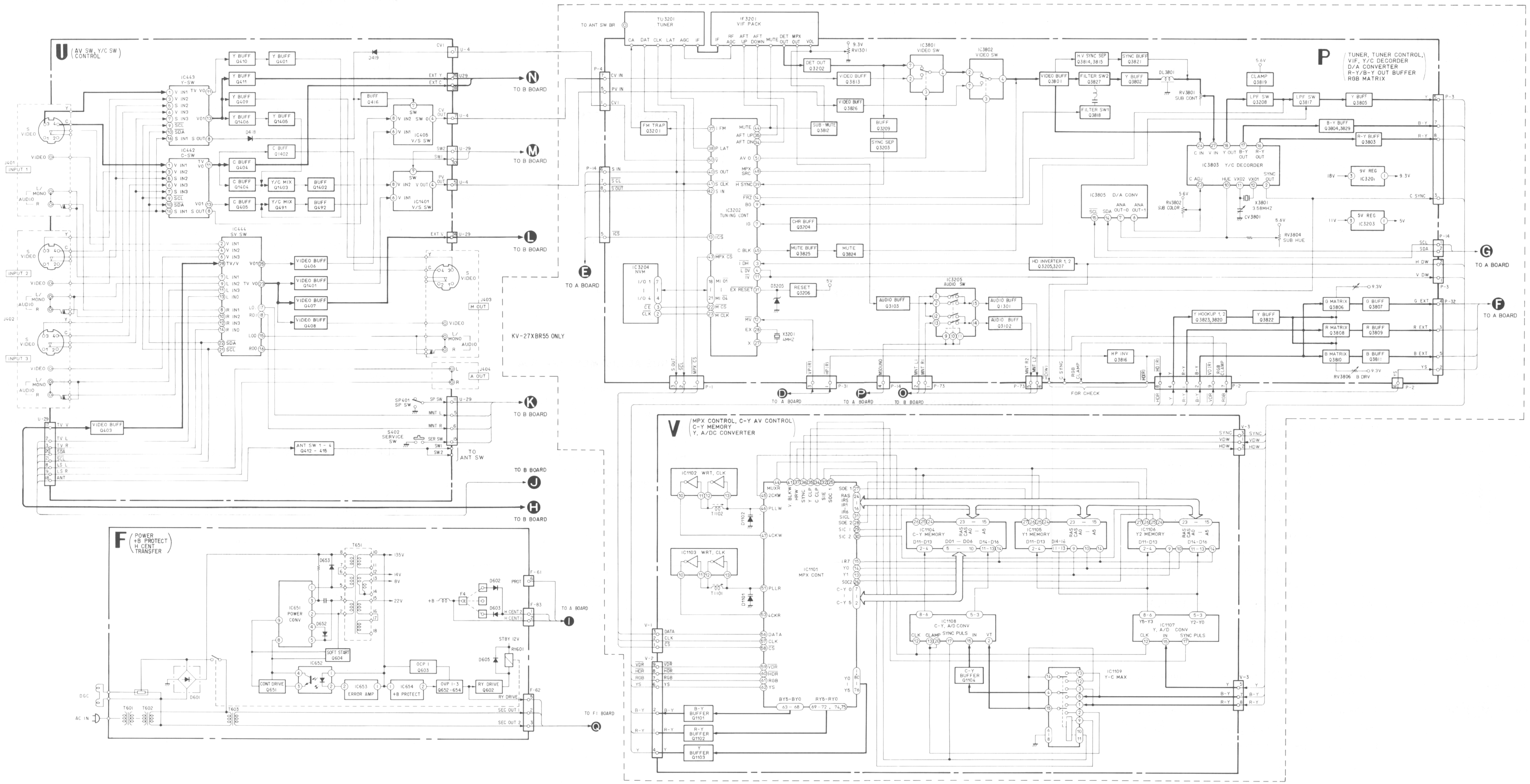
1) Receive a color−bar signal.
2) Set to PICTURE IN PICTURE mode.
3) Short circuit between the pin⑧ of V−2(HDR) Connecter and pin ⑤ of V−1(5V)connecter with a jumper wire.
4) Connect a frequency counter to pin ⑦ of V−2 (RGB)connector.
5) Adjust T1101 〔CLK(P)〕 for 15.734 kHz±10Hz.

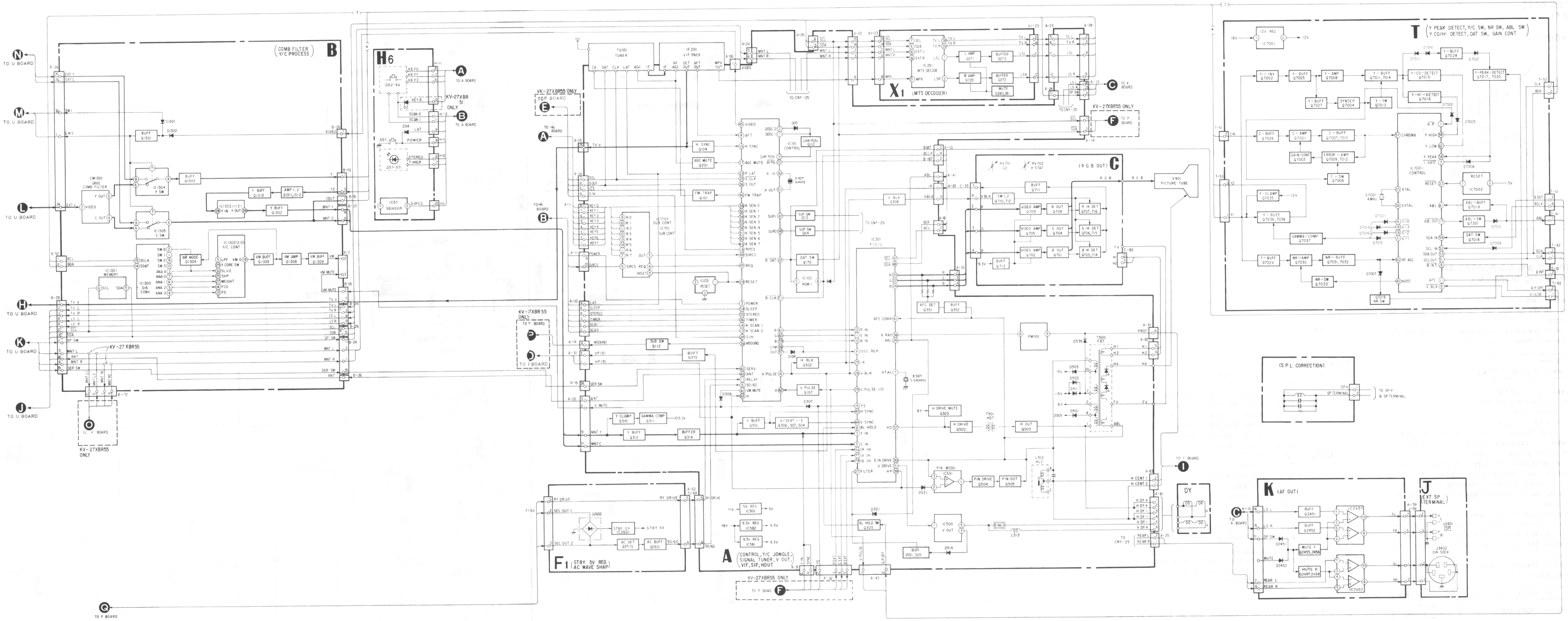
H. FREQ (sub picture) (T1102)

1) Receive a color−bar signal
2) Set to PICTURE IN PICTURE mode.
3) Short circuit between the pin③ of V−3(SYNC) connecter and pin ⑤ of V−1(5V)connecter with a jumper wire.
4) Connect a frequency counter to pin ② of V−3 (HDW)connector.
5) Adjust T1102 〔CLK(C)〕 for 15.734 kHz±10Hz.

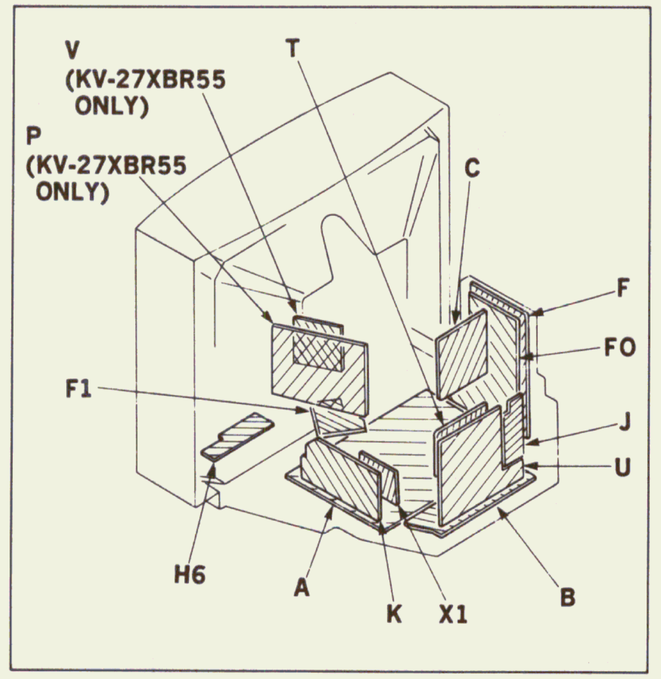
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAMS


U (AV SW, Y/C SW CONTROL)
IC443 Y-SW
IC442 C-SW
IC444 SV SW
Y BUFF Q410
Y BUFF Q401
Y BUFF Q411
Y BUFF Q409
Y BUFF Q1406
Y BUFF Q1405
C BUFF Q1402
C BUFF Q404
C BUFF Q1404
C BUFF Q405
Y/C MIX Q1403
Y/C MIX Q491
BUFF Q1402
BUFF Q492
BUFF Q416
IC405 V/S SW
IC1401 V/S SW
VIDEO BUFF Q406
VIDEO BUFF Q1401
VIDEO BUFF Q407
VIDEO BUFF Q408
VIDEO BUFF Q403
ANT SW 1 - 4 Q412 - 415
D418
D419
J401 INPUT 1
J402 INPUT 2
INPUT 3
S VIDEO
VIDEO
L/ MONO
AUDIO
R
J403 M OUT
J404 A OUT
SP401 SP SW
S402 SERVICE SW
TO ANT SW
KV-27XBR55 ONLY
TO B BOARD
TO A BOARD
P (TUNER, TUNER CONTROL, VIF, Y/C DECORDER D/A CONVERTER R-Y/B-Y OUT BUFFER RGB MATRIX)
TO ANT SW BR
TU3201 TUNER
IF3201 VIF PACK
RV1301
DET OUT Q3202
VIDEO BUFF Q3813
VIDEO BUFF Q3826
FM TRAP Q3201
SUB-MUTE Q3812
BUFF Q3209
SYNC SEP Q3203
IC3801 VIDEO SW
IC3802 VIDEO SW
IC3202 TUNING CONT
IC3204 NVM
CHR BUFF Q3204
MUTE BUFF Q3825
MUTE Q3824
RESET Q3206
D3205
X3201 4MHZ
AUDIO BUFF Q3103
IC3205 AUDIO SW
AUDIO BUFF Q1301
AUDIO BUFF Q3102
HD INVERTER 1, 2 Q3205,3207
HP INV Q3816
VIDEO BUFF Q3801
H.V SYNC SEP Q3814,3815
SYNC BUFF Q3821
FILTER SW2 Q3827
FILTER SW1 Q3818
Y BUFF Q3802
DL3801
RV3801 SUB CONT
CLAMP Q3819
LPF SW Q3208
LPF SW Q3817
Y BUFF Q3805
B-Y BUFF Q3804,3829
R-Y BUFF Q3803
IC3803 Y/C DECORDER
X3801 3.58MHZ
CV3801
IC3805 D/A CONV
RV3802 SUB COLOR
RV3804 SUB HUE
9V REG IC3201
5V REG IC3203
Y HOOKUP 1, 2 Q3823,3820
Y BUFF Q3822
G MATRIX Q3806
G BUFF Q3807
R MATRIX Q3808
R BUFF Q3809
B MATRIX Q3810
B BUFF Q3811
RV3806 B DRV
FOR CHECK
TO A BOARD
TO B BOARD
F (POWER +B PROTECT H CENT TRANSFER)
T651
IC651 POWER CONV
D653
D652
SOFT START Q604
IC652
CONT DRIVE Q651
IC653 ERROR AMP
IC654 +B PROTECT
OCP 1 Q603
OVP 1-3 Q652-654
RY DRIVE Q602
RY601
STBY 12V
D605
D602
D603
F4
D601
DGC
AC IN
T601
T602
T603
135V
14V
8V
22V
TO F1 BOARD
V (MPX CONTROL, C-Y AV CONTROL C-Y MEMORY Y, A/DC CONVERTER)
IC1102 WRT, CLK
IC1103 WRT, CLK
T1102
T1101
D1102
D1101
IC1101 MPX CONT
IC1104 C-Y MEMORY
IC1105 Y1 MEMORY
IC1106 Y2 MEMORY
IC1108 C-Y, A/D CONV
IC1107 Y, A/D CONV
C-Y BUFFER Q1104
IC1109 Y-C MAX
B-Y BUFFER Q1101
R-Y BUFFER Q1102
Y BUFFER Q1103


B (COMB FILTER Y/C PROCESS)
H6
X1 (MTS DECODER)
C (R-G-B OUT)
T (Y PEAK DETECT, Y/C SW, NR SW, ABL SW / Y CO/HI DETECT, DAT SW, GAIN CONT)
A (CONTROL, Y/C JUNGLE, SIGNAL TUNER, V OUT, VIF, SIF, HOUT)
F1 (STBY 5V REG / AC WAVE SHAP)
K (AF OUT)
J (EXT SP TERMINAL)
DY
(S P L CORRECTION)
TU101 TUNER
IF201 VIF PACK
IC101 CONTROL
IC301 Y/C/J
IC500 V OUT
V901 PICTURE TUBE
T500 FBT
KV-27XBR55 ONLY
TO U BOARD
TO A BOARD
TO F BOARD
TO P BOARD
TO K BOARD
TO Y BOARD
TO CNY-25

6-2. CIRCUIT BOARDS LOCATION



6-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note :

- All capacitors are in μF unless otherwise noted.
  pF : μμF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power 1/4W

- All resistors are in ohms.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- △ : internal component.
- ▭ : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⊠ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the specified value is achieved.
- When replacing the part in below table be sure to perform the related adjustment.

Part replaced (◪)	Adjustment (⊠)
IC301, PM501, R549, R564	R549 (HOLD-DOWN)
IC301, IC653, PM501, D539, C556, R556, R564, R567, R663, T500	R567 (HOLD-DOWN)

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerance.
- ━━ : B+ bus.
- ▬ ▬ ▬ : B− bus.
- ▨▶ : signal path.

Reference information

RESISTOR : RN METAL FILM
: RC SOLID
: FPRD NONFLAMMABLE CARBON
: FUSE NONFLAMMABLE FUSIBLE
: RW NONFLAMMABLE WIREWOUND
: RS NONFLAMMABLE METAL OXIDE
: RB NONFLAMMABLE CEMENT
COIL : LF-8L MICRO INDUCTOR
CAPACITOR : TA TANTALUM
: PS STYROL
: PP POLYPROPYLENE
: PT MYLAR
: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE
: ALB BIPOLAR
: ALT HIGH TEMPERATURE
: ALR HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

IC	
IC101	F-3
IC102	G-2
IC103	F-2
IC301	B-5
IC500	D-6
IC531	G-7
IC581	F-6
IC582	G-6
IC901	G-5
IC1701	E-3

TRANSISTOR	
Q101	B-1
Q104	D-2
Q107	E-4
Q110	G-4
Q112	F-2
Q113	D-2
Q114	D-3
Q170	G-2
Q201	B-1
Q301	C-4
Q302	B-6
Q303	F-5
Q304	C-5
Q305	A-4
Q306	D-5
Q307	C-5
Q308	B-6
Q310	C-4
Q311	D-4
Q312	D-4
Q313	D-5
Q314	D-4
Q351	A-5
Q352	A-6
Q501	D-6
Q502	G-10
Q503	E-10
Q504	F-8
Q505	G-8
Q506	D-5

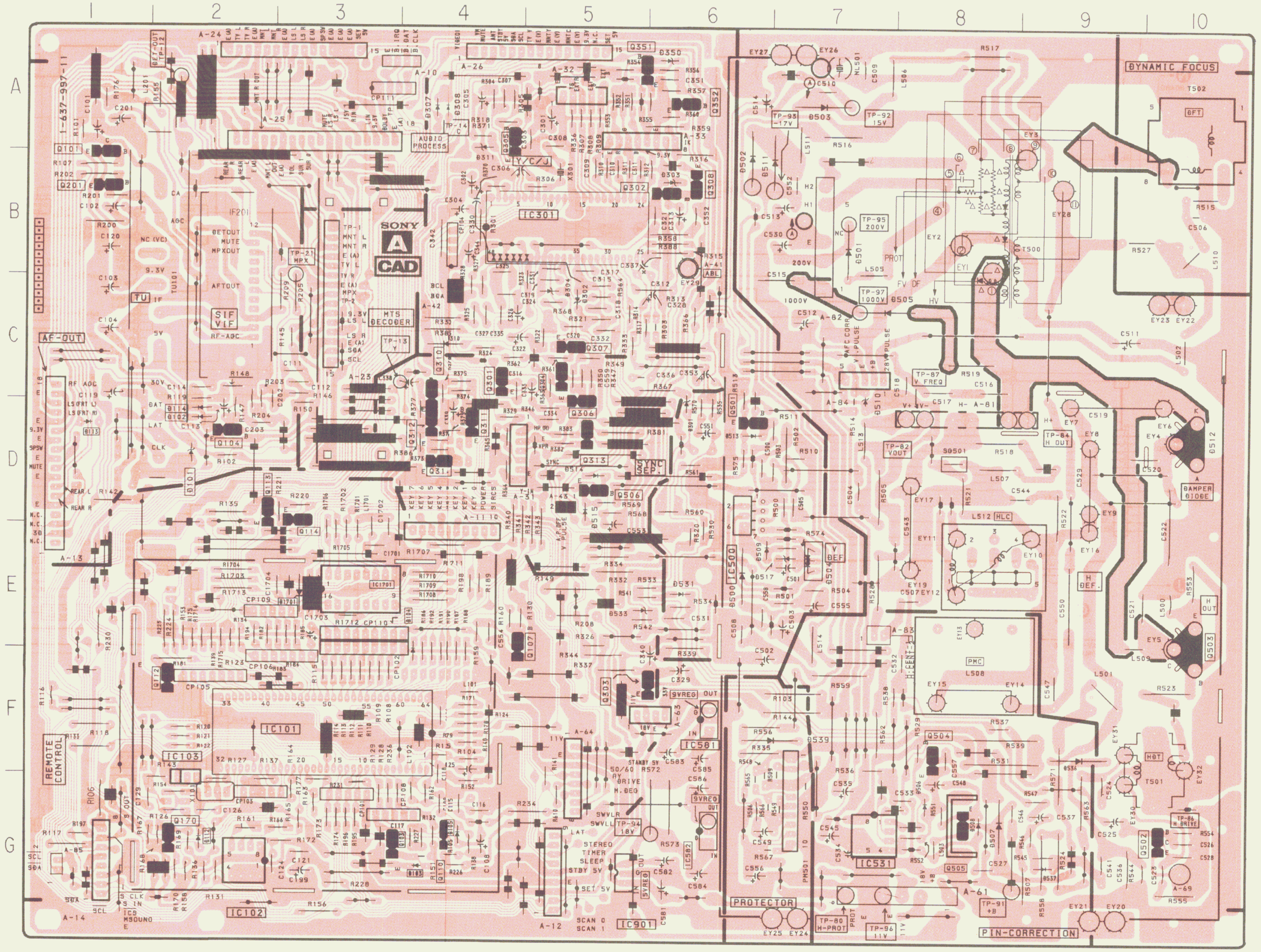
DIODE	
D101	D-2
D102	D-2
D104	E-4
D105	G-4
D112	G-2
D114	D-2
D301	D-6
D302	C-5
D303	B-6
D304	C-5
D307	A-4
D308	A-4
D310	C-4
D311	A-4
D350	A-6
D500	E-6
D501	B-7
D502	B-6
D503	A-7
D504	E-7
D505	C-7
D506	G-8
D507	G-8
D508	G-8
D509	E-6
D510	C-7
D511	B-6
D512	D-10
D513	D-6
D514	D-5
D515	D-5
D517	E-7
D531	E-6
D533	E-5
D539	F-7
D1701	E-3

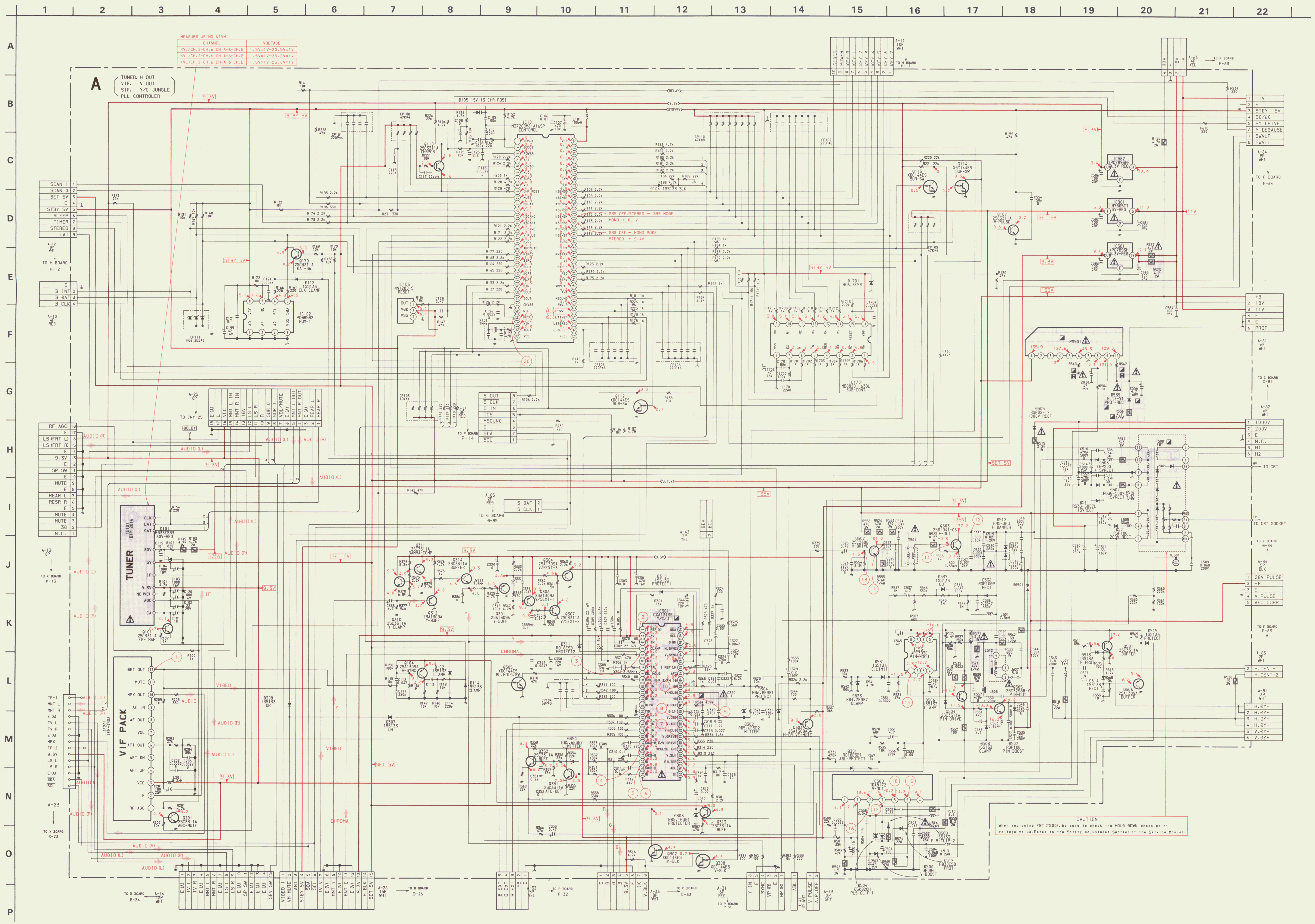
TP	
TP-13	C-3
TP-21	B-3
TP-80	G-7
TP-82	D-8
TP-84	D-9
TP-86	G-10
TP-87	C-8
TP-91	G-8
TP-92	A-7
TP-93	A-7
TP-94	G-5
TP-95	B-7
TP-97	C-7

[TUNER, H OUT, VIF, V OUT
SIF, Y/C JUNGLE, PLL CONTROLER] **A** **A**

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

— A Board —




A
TUNER, H OUT
VIF, V OUT
SIF, Y/C JUNGLE
PLL CONTROLER
TUNER
VIF PACK

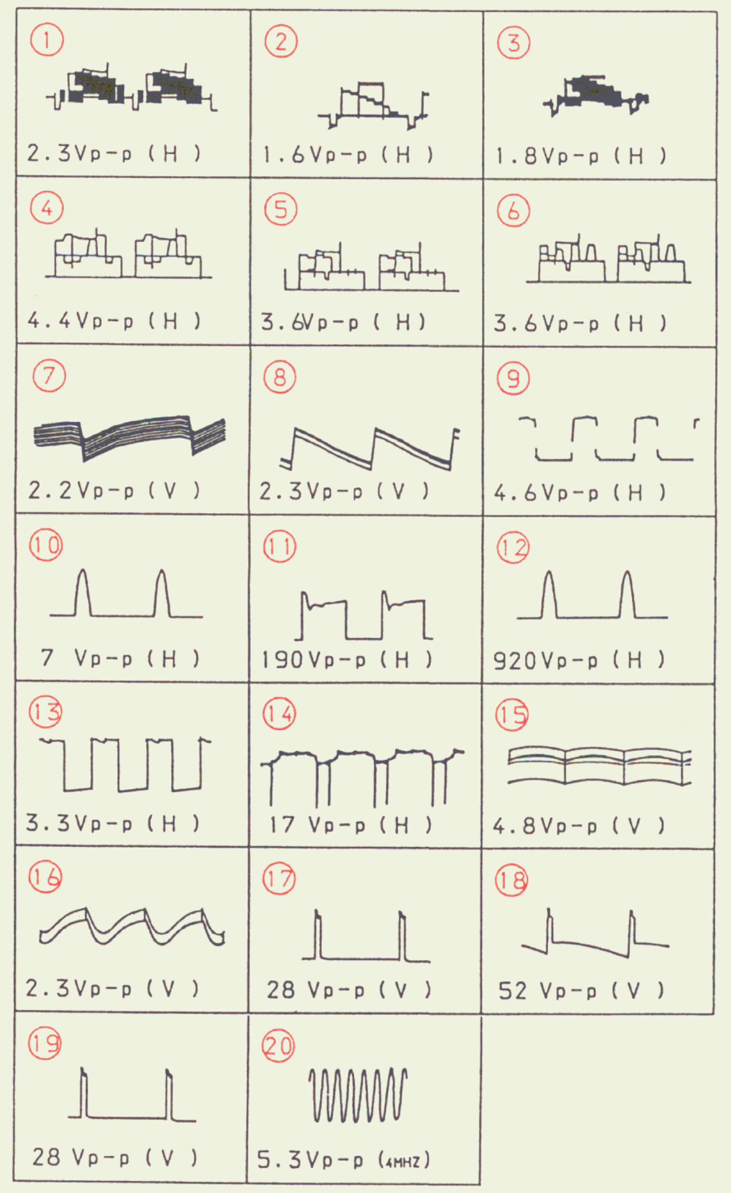
MEASURD USING NTVM

CHANNEL	VOLTAGE
<VL>CH.2-CH.6 CH.A-6-CH.B	1.5V±1V~20.5V±1V
<VL>CH.2-CH.6 CH.A-6-CH.B	1.5V±1V~25.0V±1V
<VL>CH.2-CH.6 CH.A-6-CH.B	1.5V±1V~25.0V±1V

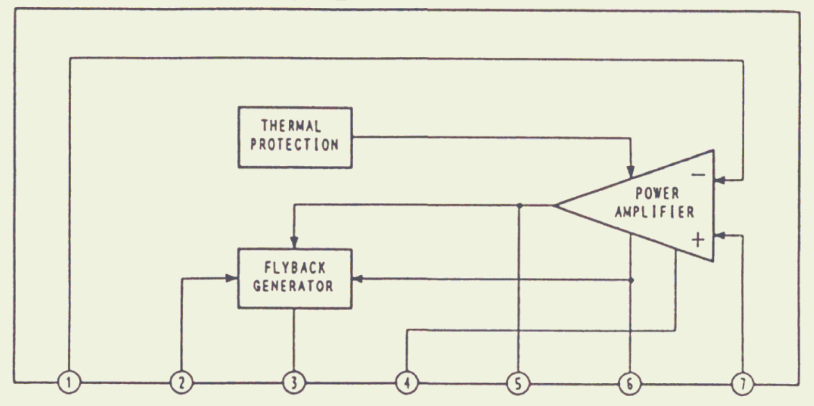
CAUTION

When replacing FBT (T500), be sure to check the HOLD DOWN check point voltage value. Refer to the Safety adjustment Section of the Service Manual.

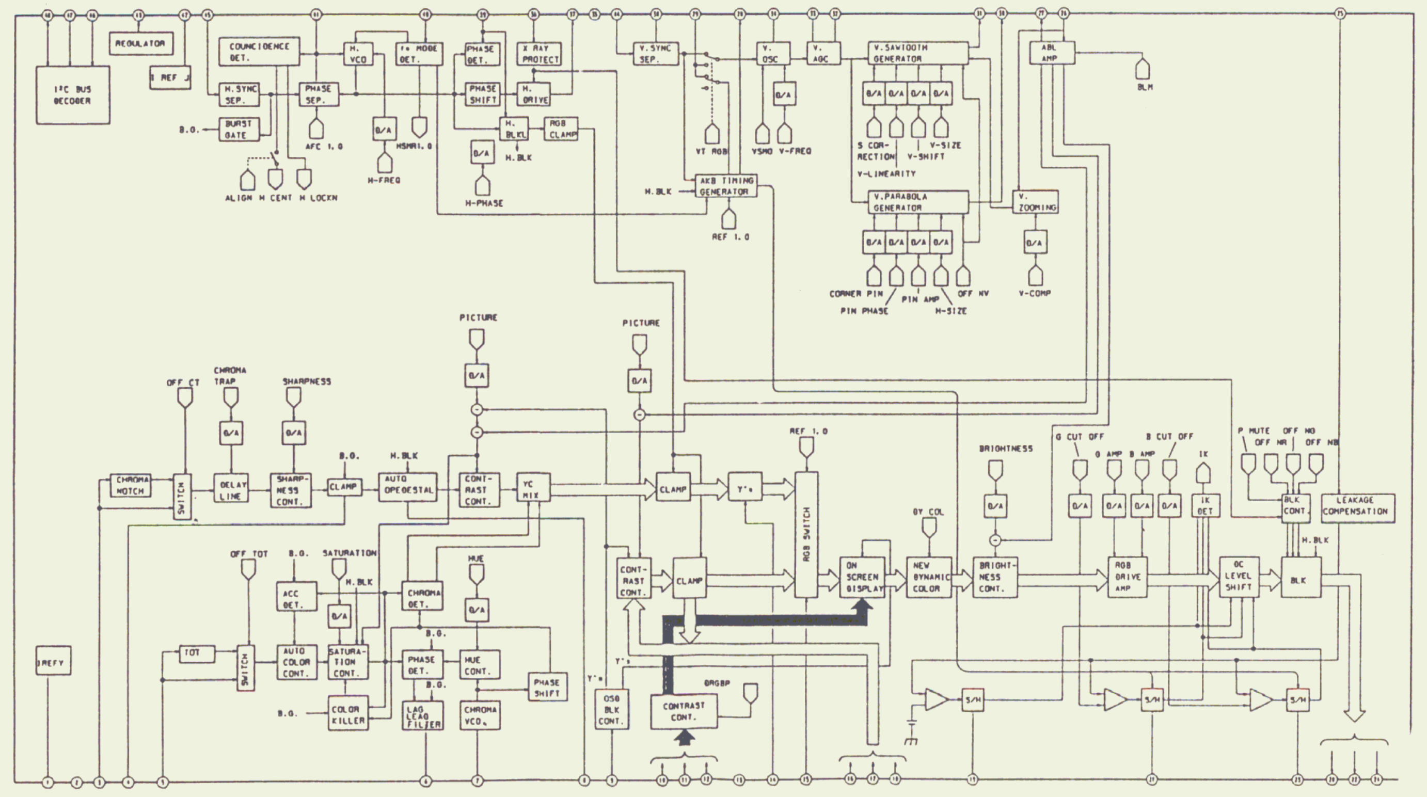
A BOARD

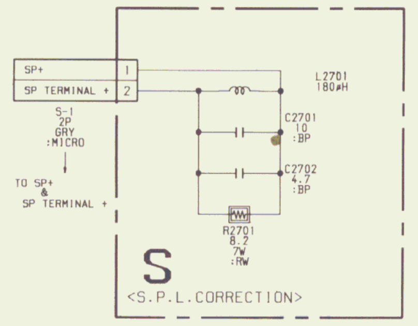

① 2.3Vp-p (H)
② 1.6Vp-p (H)
③ 1.8Vp-p (H)
④ 4.4Vp-p (H)
⑤ 3.6Vp-p (H)
⑥ 3.6Vp-p (H)
⑦ 2.2Vp-p (V)
⑧ 2.3Vp-p (V)
⑨ 4.6Vp-p (H)
⑩ 7 Vp-p (H)
⑪ 190Vp-p (H)
⑫ 920Vp-p (H)
⑬ 3.3Vp-p (H)
⑭ 17 Vp-p (H)
⑮ 4.8Vp-p (V)
⑯ 2.3Vp-p (V)
⑰ 28 Vp-p (V)
⑱ 52 Vp-p (V)
⑲ 28 Vp-p (V)
⑳ 5.3Vp-p (4MHZ)

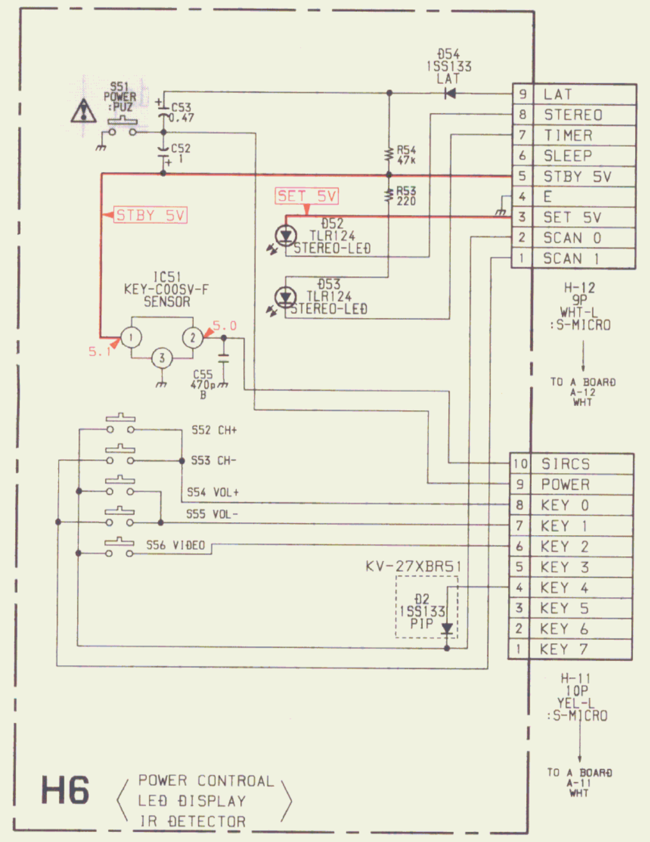
A BOARD IC500 TDA8172

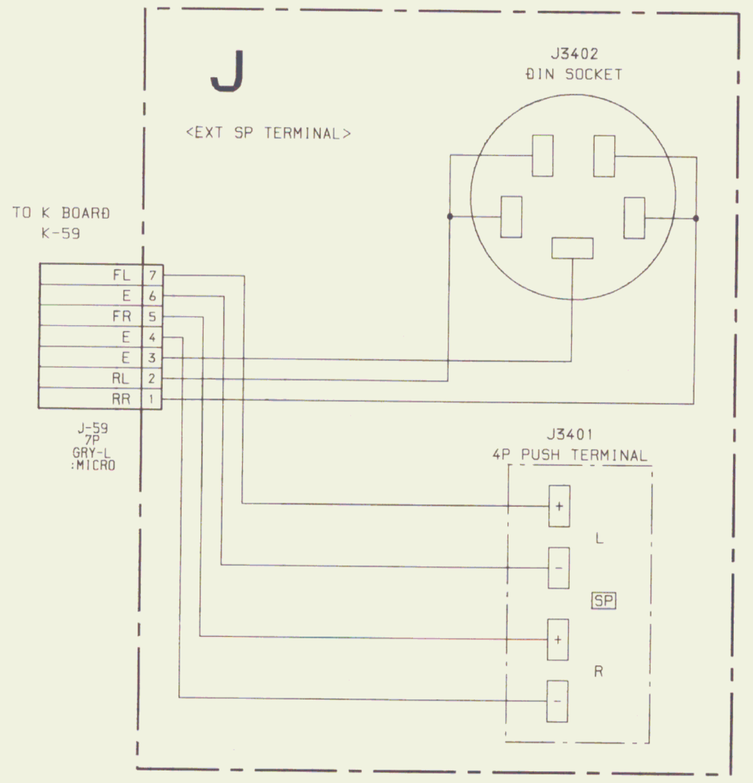

THERMAL PROTECTION
FLYBACK GENERATOR
POWER AMPLIFIER

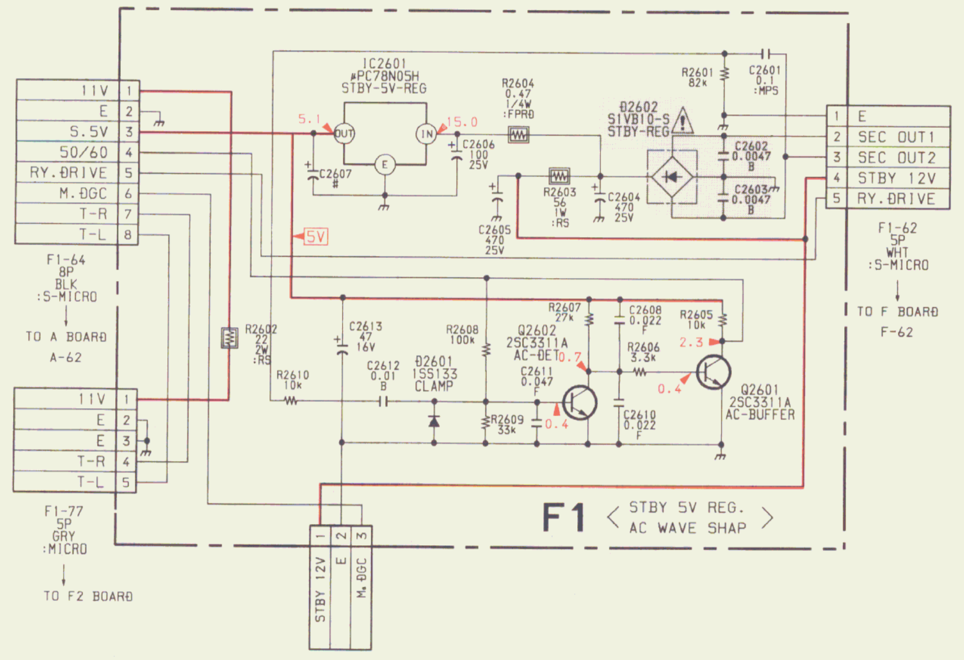
A BOARD IC301 CXA1313S

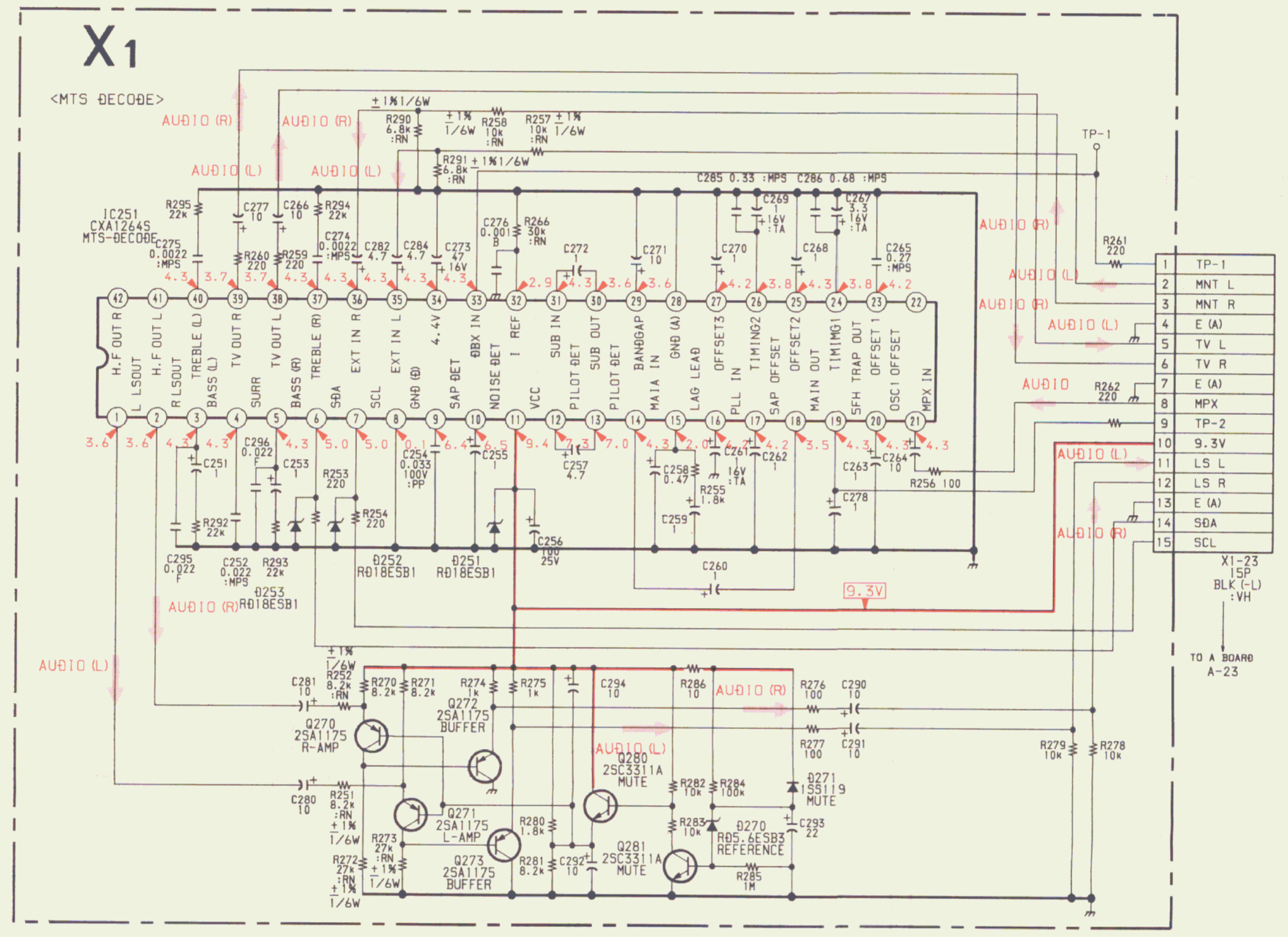




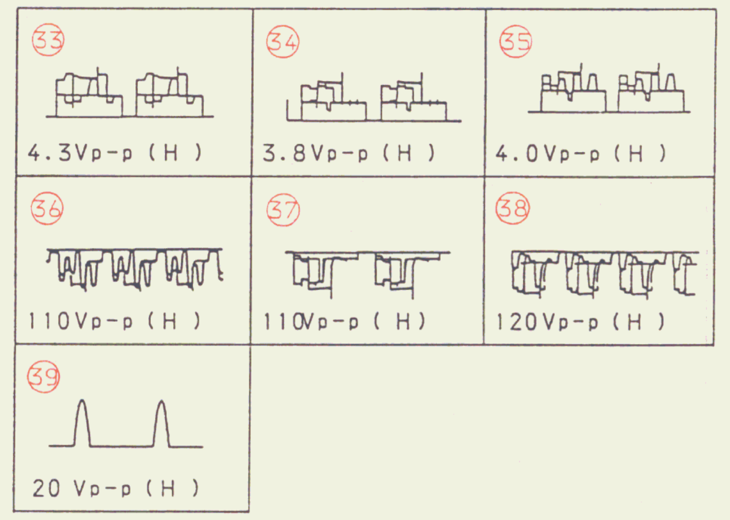

H6
POWER CONTROL/LED DISPLAY/IR DETECTOR
KV-27XBR51

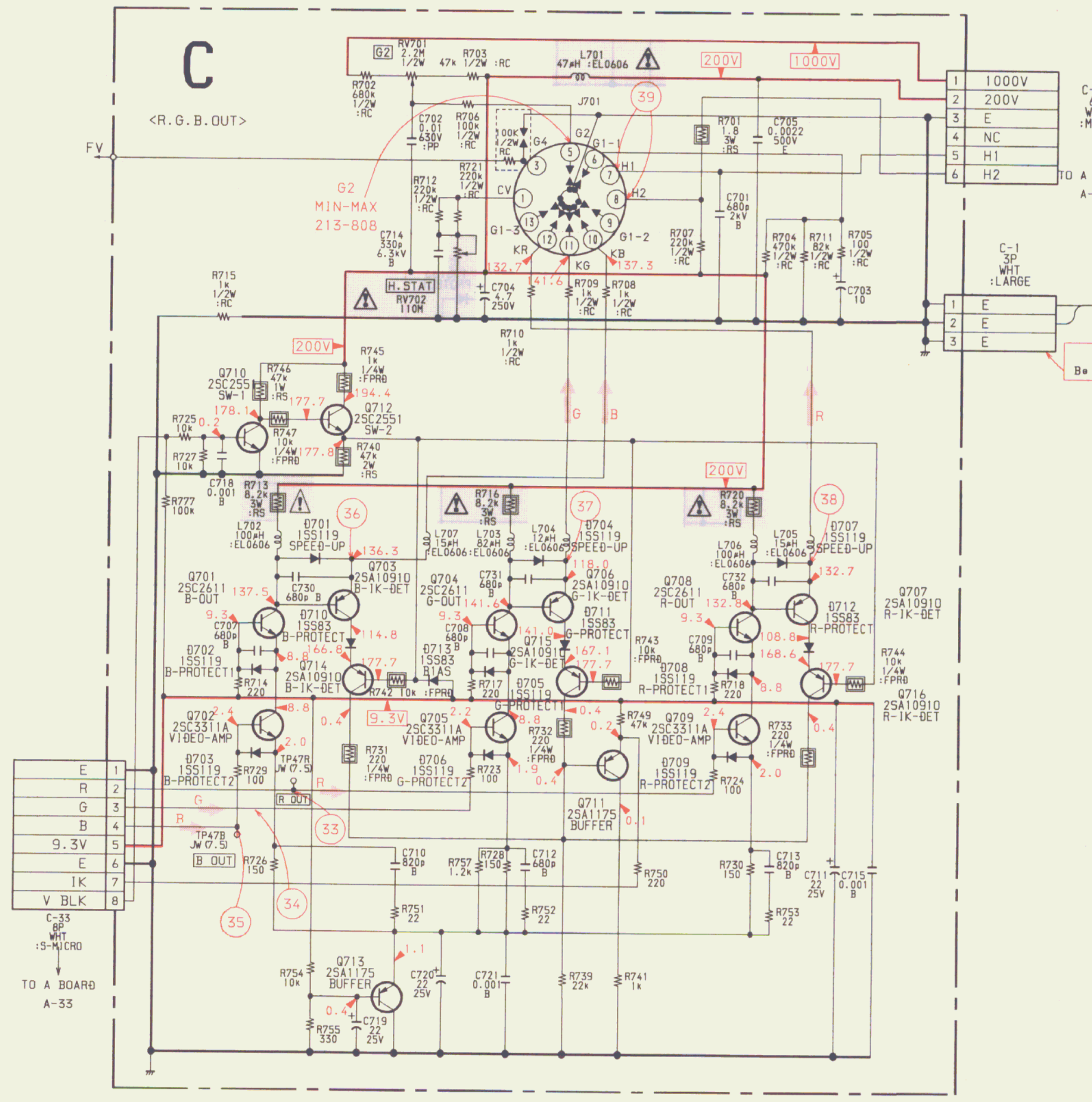

J
<EXT SP TERMINAL>
J3402 DIN SOCKET
J3401 4P PUSH TERMINAL
TO K BOARD K-59

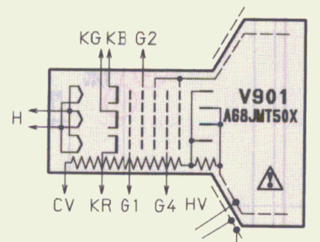

F1
STBY 5V REG./AC WAVE SHAP
TO A BOARD A-42
TO F BOARD F-42
TO F2 BOARD

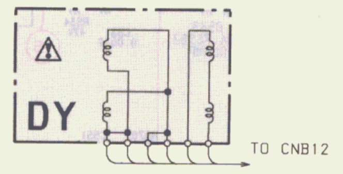

X1
<MTS DECODE>
IC251 CXA1264Q MTS-DECODE
TO A BOARD A-23

C BOARD

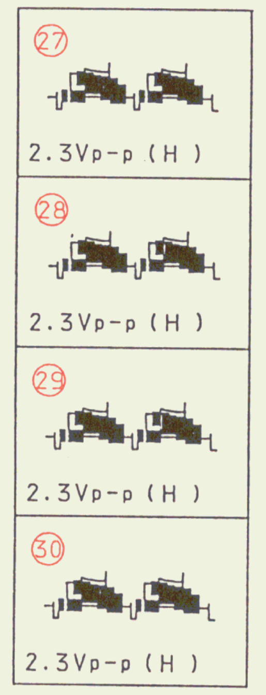



C
<R.G.B. OUT>
TO A BOARD A-82
TO A BOARD A-33
CAUTION
Be sure to connect the connector C-1 for safety.

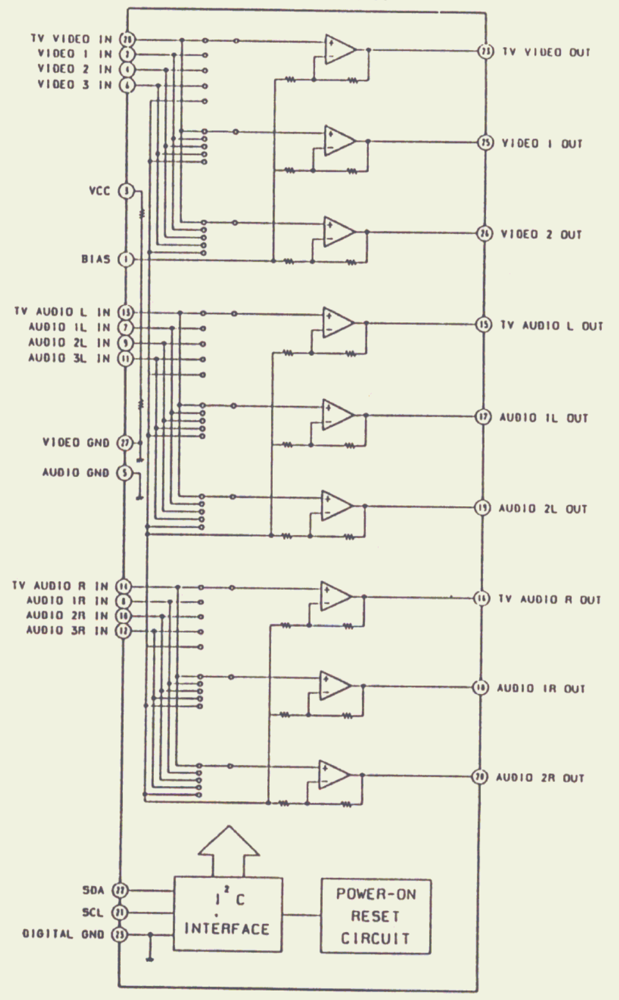

KG KB G2
V901
A68JNT50X
CV KR G1 G4 HV



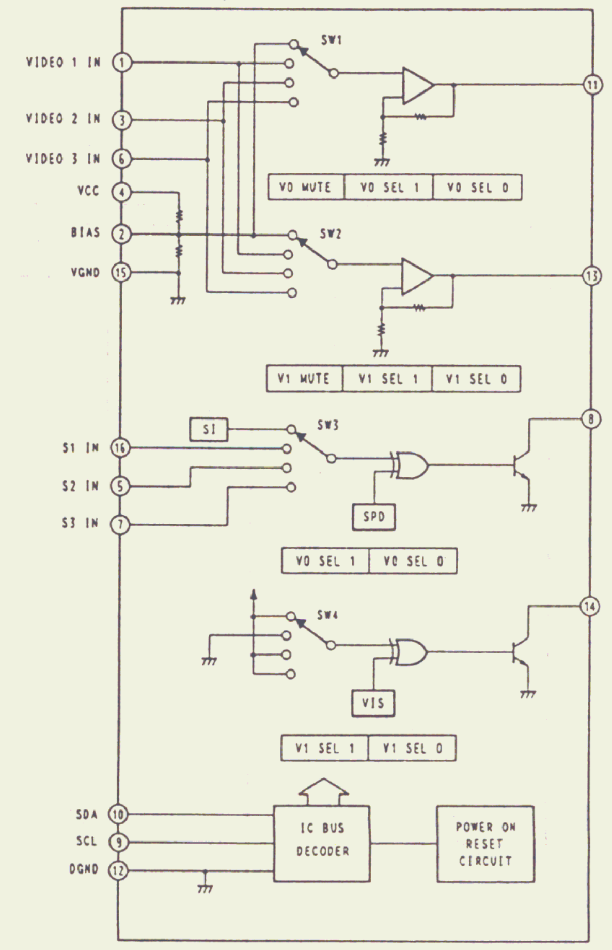
U BOARD



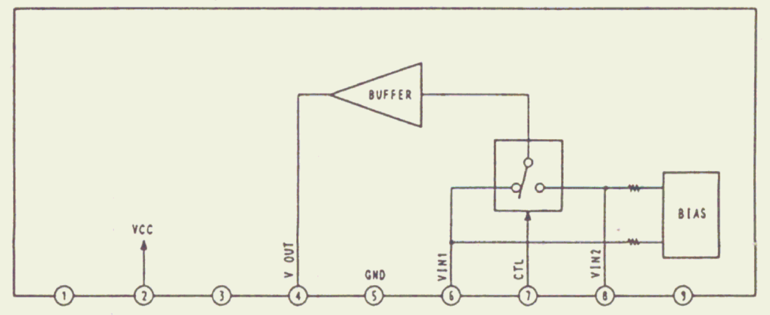
U BOARD IC444 CXA1114P

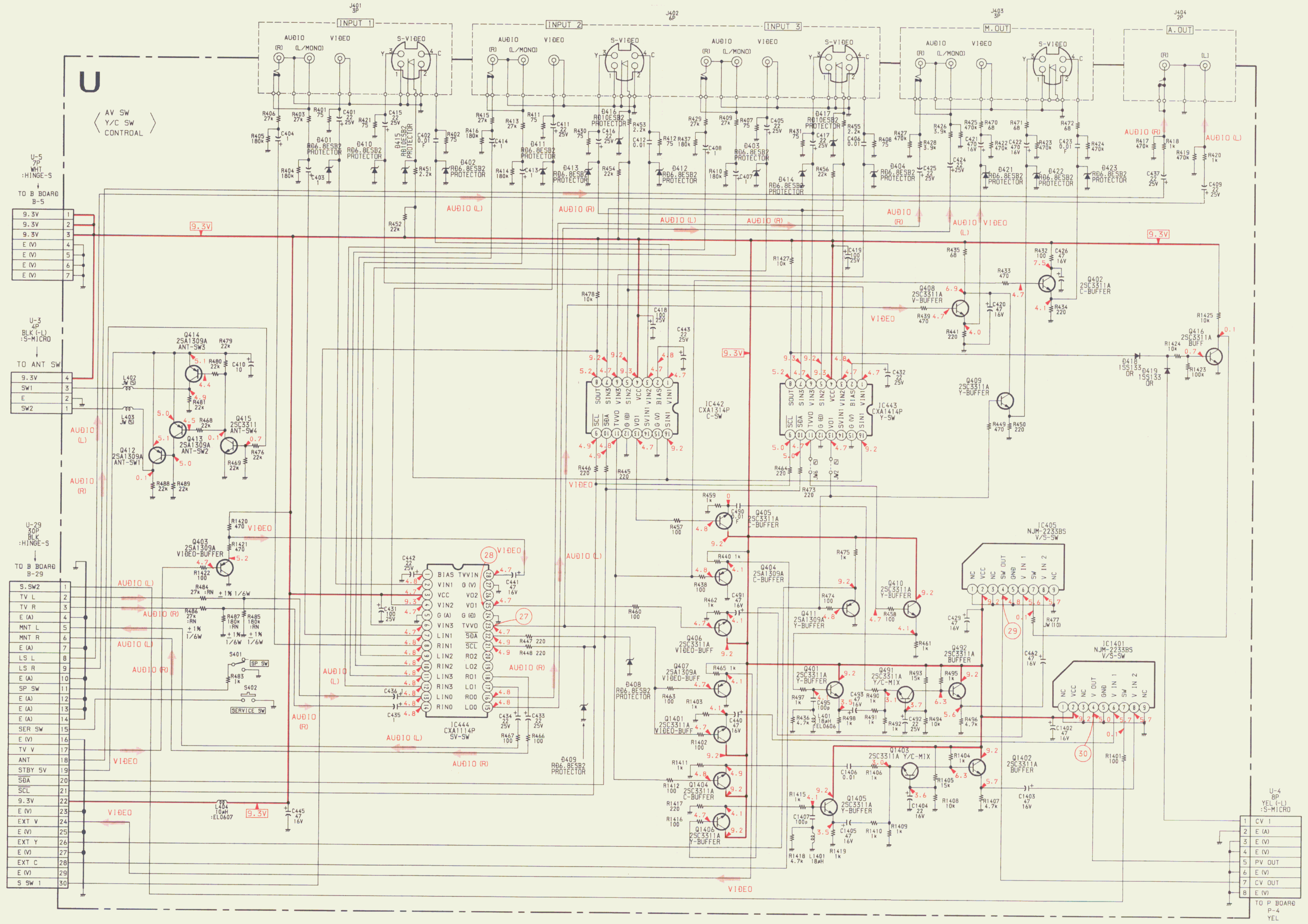

I²C INTERFACE
POWER-ON RESET CIRCUIT

U BOARD IC442, 443 CXA1314P/1414P


IC BUS DECODER
POWER ON RESET CIRCUIT

U BOARD IC405, 1401 NJM2233BS

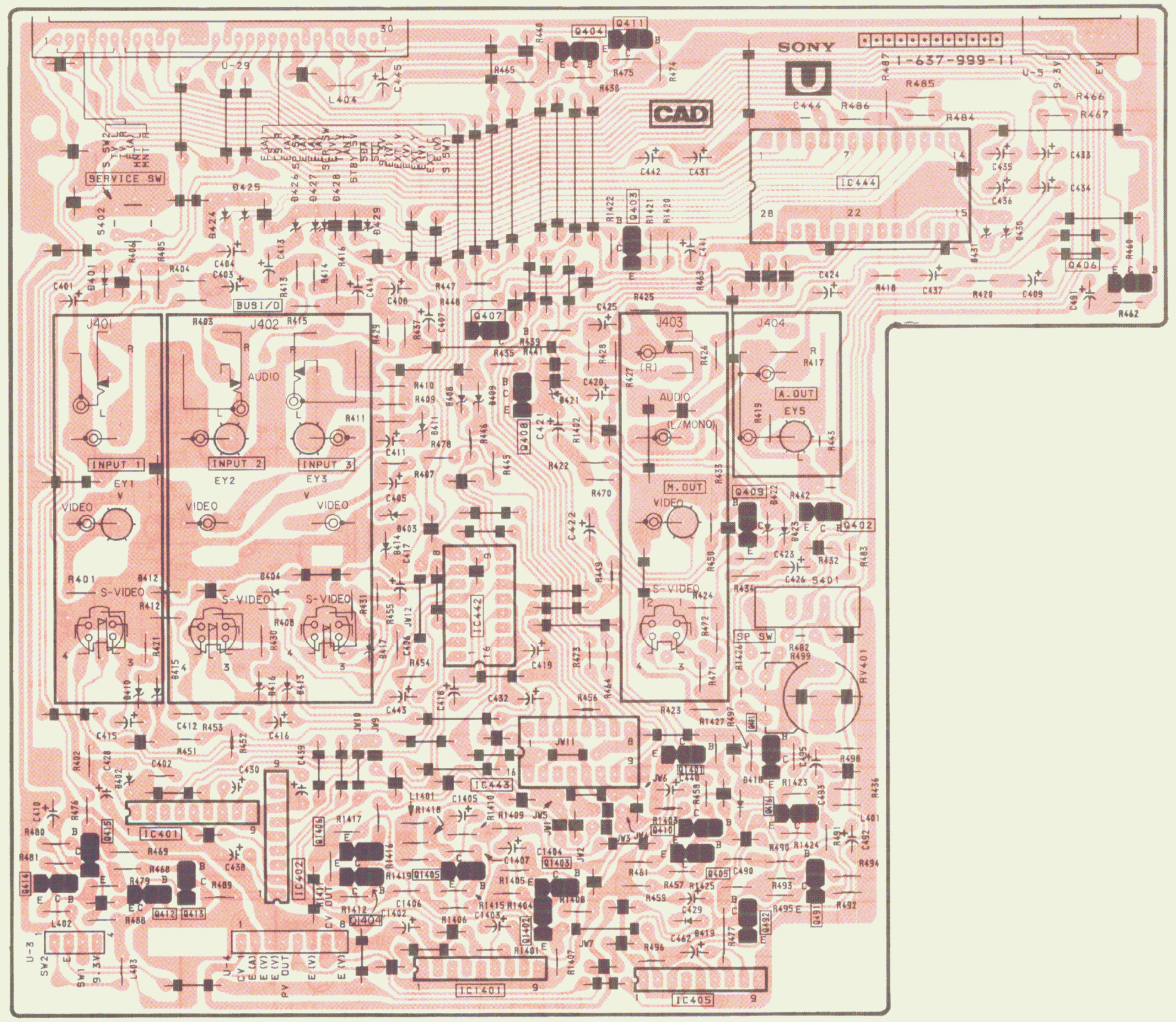

BUFFER
BIAS


U
AV SW Y/C SW CONTROL
INPUT 1
INPUT 2
INPUT 3
M.OUT
A.OUT
IC444 CXA1114P
IC442 CXA1314P
IC443 CXA1414P
TO P BOARD

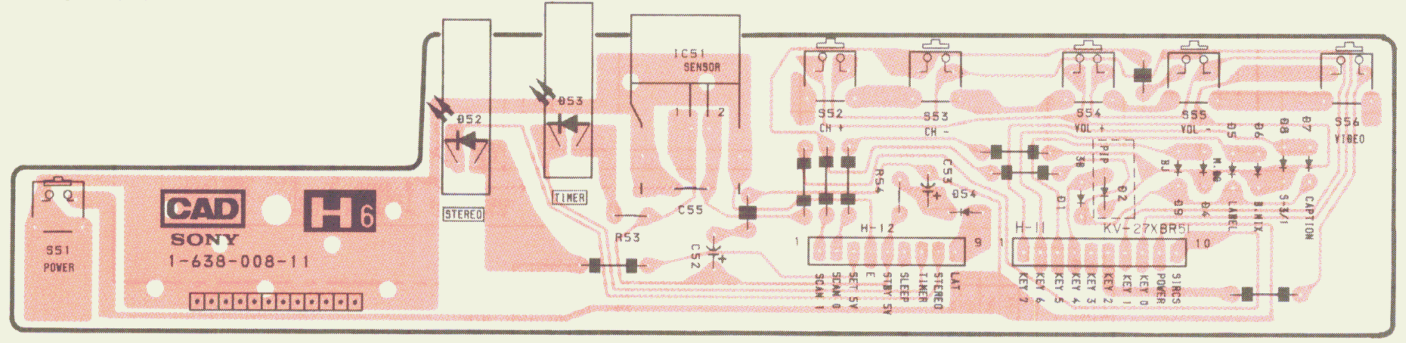
[AV SW, Y/C SW CONTROL] **U**

[POWER CONTROL
LED DISPLAY IR DETECTOR] **H6**

— U Board —


SONY
U
CAD
1-637-999-11
SERVICE SW
J401
J402
J403
J404
INPUT 1
INPUT 2
INPUT 3
AUDIO
VIDEO
S-VIDEO
A.OUT
M.OUT
IC401
IC403
IC405

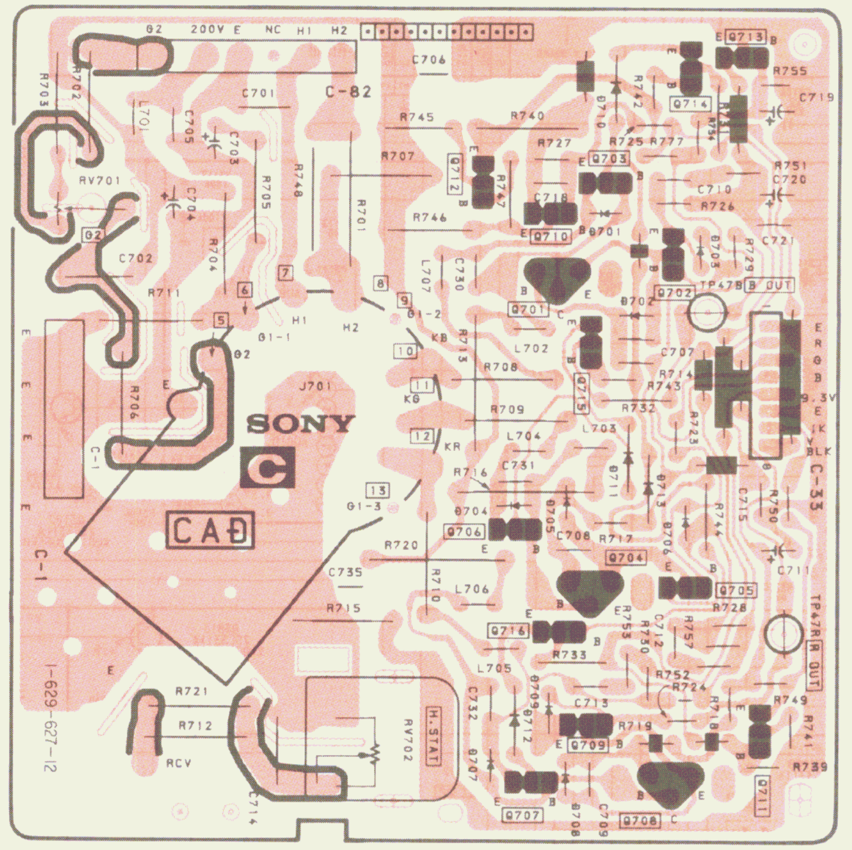
— H6 Board —


CAD
H6
SONY
1-638-008-11
S51
POWER
IC51
SENSOR
STEREO
TIMER
KV-27XBR5

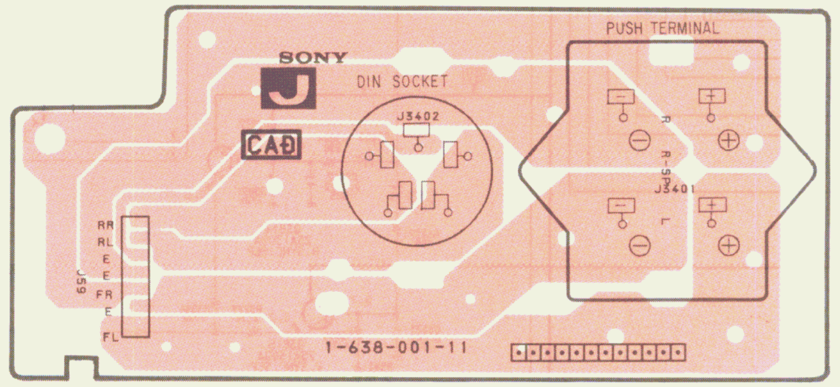
C [R. G. B OUT]

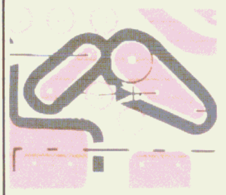
J [EXT SP TERMINAL]

— C Board —


C-82
SONY
C
CAD
J761
RV701
C-1

— J Board —


SONY
J
CAD
DIN SOCKET
PUSH TERMINAL
J3402
J3401
1-638-001-11



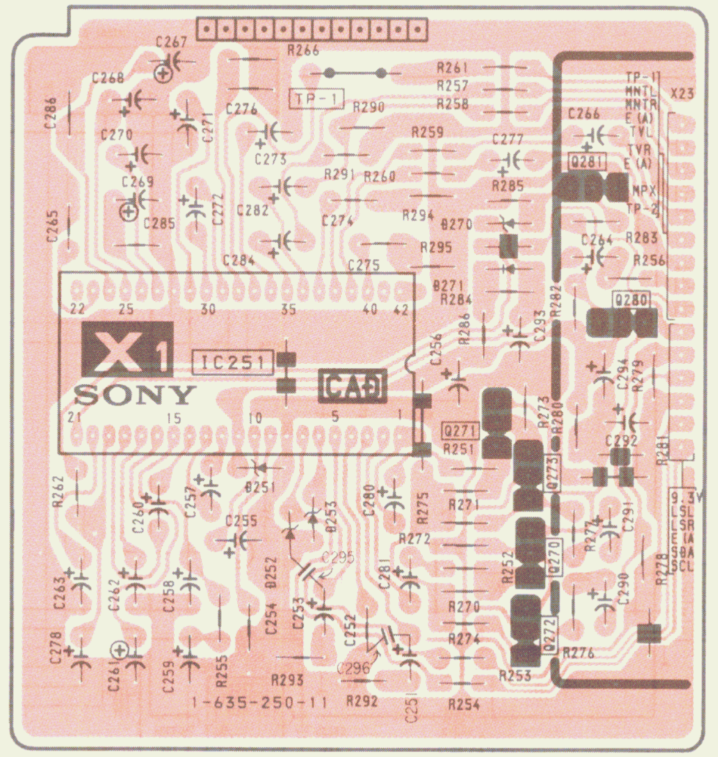
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

[MTS DECODE] **X1**

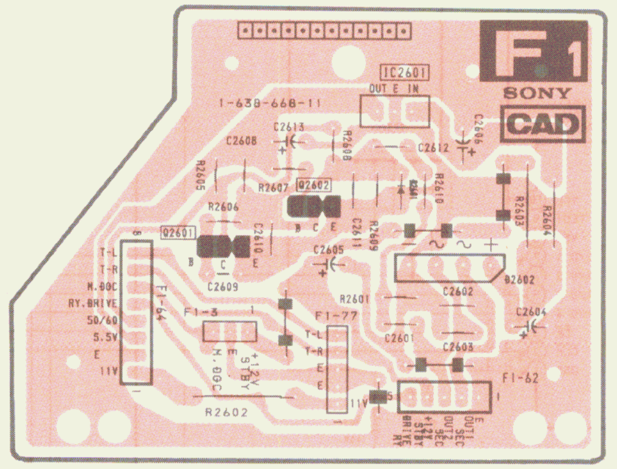
[STBY 5V REG, AC WAVE SHAP] **F1**

[S. P. L. CORRECTION] **S**

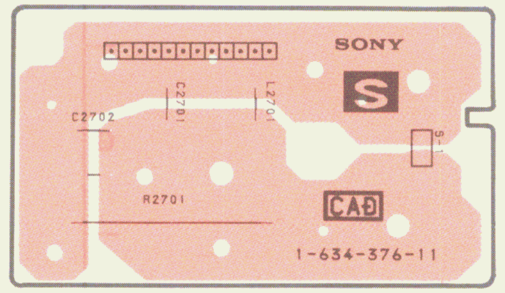
— X1 Board —

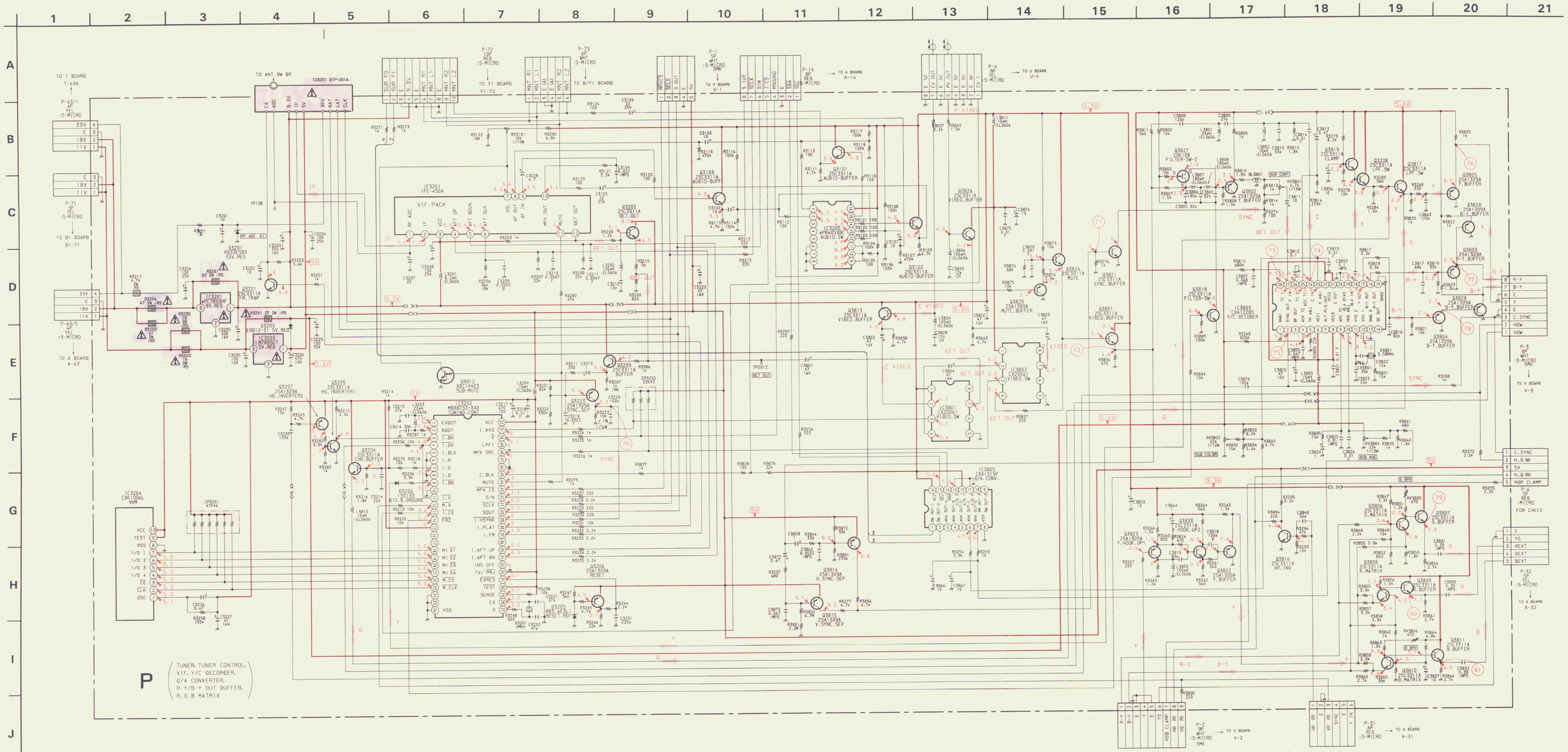

X1
SONY
CAD
IC251
1-635-250-11

— F1 Board —


F1
SONY
CAD
1-638-448-11
IC2601

— S Board —


SONY
S
CAD
1-634-376-11


1
2
3
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9
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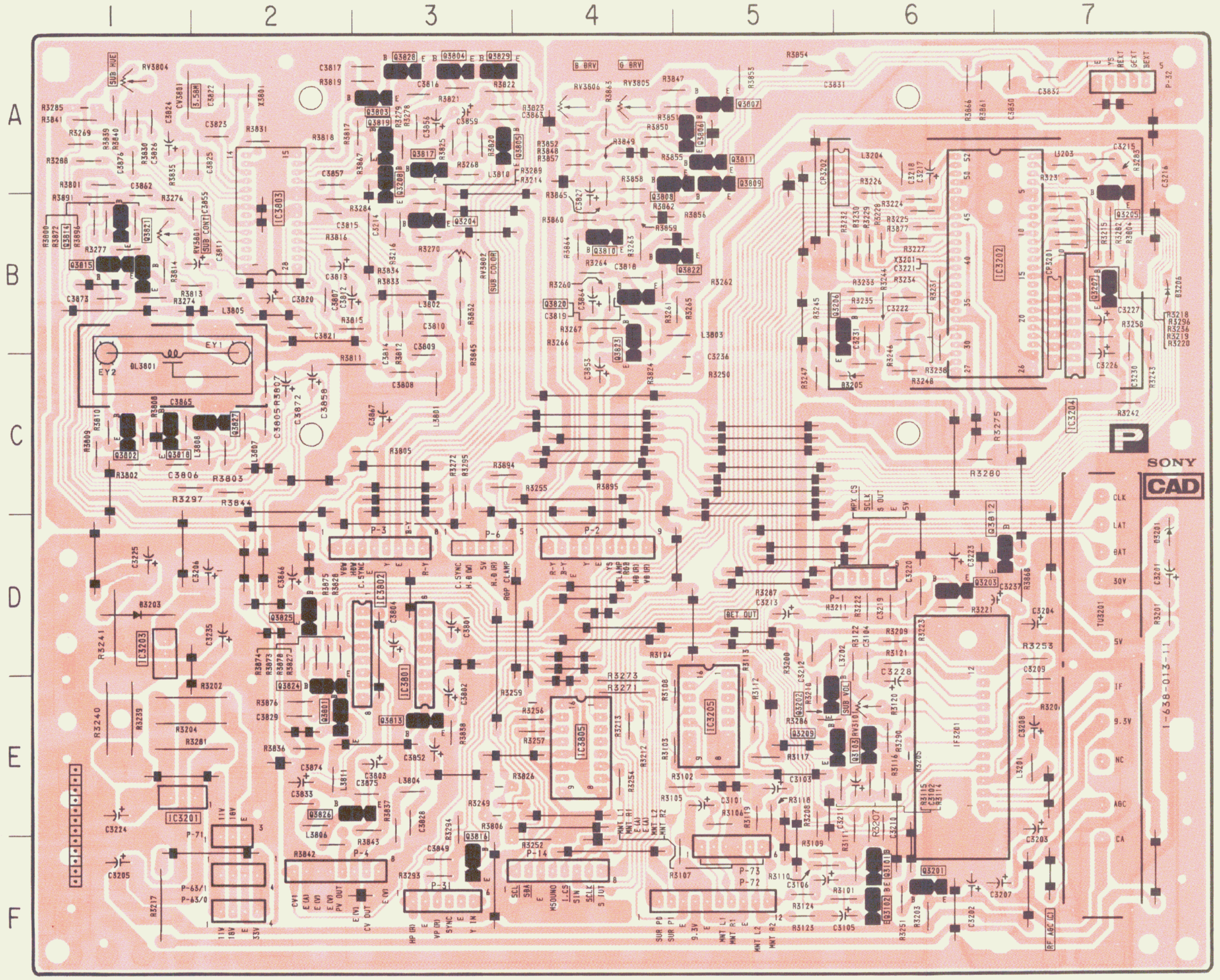
11
12
13
14
15
16
17
18
19
20
21
A
B
C
D
E
F
G
H
I
J
TO ANT SW BR
TU3201 BTP-201A
IC3201 IFE-450A
VIF.PACK
IC3202 M88733-XXX TUNING CONT
IC3204 CXK1006L NVM
IC3203 PT-201G
IC3205 μPD4053BC AUDIO.SW
IC3801 CXA2061 VIDEO.SW
IC3802 CX20061 VIDEO.SW
IC3803 CXA1228S Y/C.DECODER
IC3805 CXA1315P D/A.CONV.
TO T BOARD T-63A
TO B1 BOARD B1-71
TO A BOARD A-63
TO Y1 BOARD Y1-72
TO B/Y1 BOARD
TO V BOARD V-1
TO A BOARD A-14
TO U BOARD U-4
TO V BOARD V-3
TO V BOARD V-2
TO A BOARD A-31
TO A BOARD A-32
FOR CHECK
P
TUNER, TUNER CONTROL,
VIF, Y/C DECORDER,
D/A CONVERTER,
R-Y/B-Y OUT BUFFER,
R.G.B MATRIX

TUNER, TUNER CONTROL, VIF, Y/C DECORDER
D/A CONVERTER, R-Y/B-Y OUT, BUFFER
R. G. B MATRIX

P

— P Board — (KV-27XBR55 ONLY)


1
2
3
4
5
6
7
A
B
C
D
E
F
SONY
CAD
P
1-638-013-11

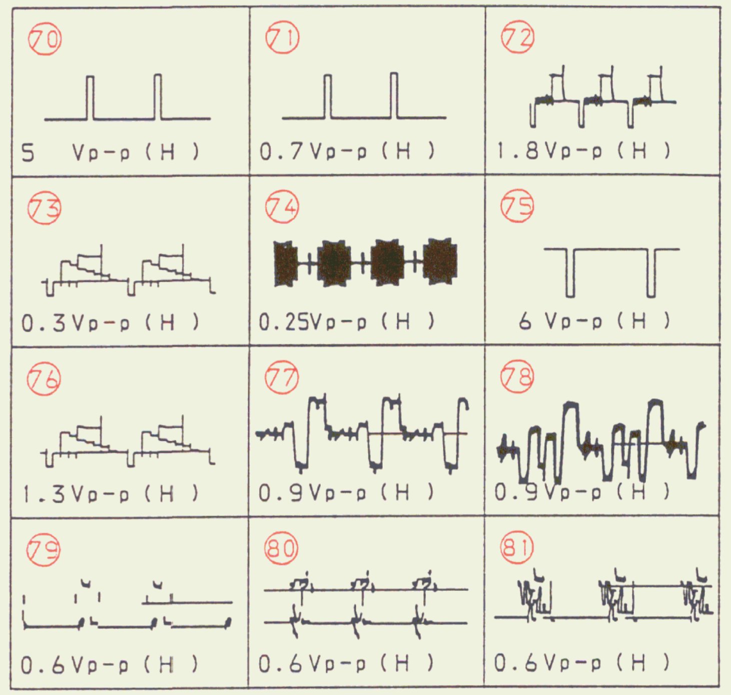
IC	
IC3201	E-1
IC3202	B-7
IC3203	D-1
IC3204	B-7
IC3205	E-5
IC3801	D-3
IC3802	D-3
IC3803	B-2
IC3805	E-4

TRANSISTOR	
Q3101	F-6
Q3102	F-6
Q3103	E-6
Q3201	F-6
Q3202	E-6
Q3203	D-6
Q3204	B-3
Q3205	B-7
Q3206	B-6
Q3207	B-7
Q3208	A-3
Q3209	E-6
Q3801	E-2
Q3802	C-1
Q3803	A-3
Q3804	A-3
Q3805	A-3
Q3806	A-3
Q3807	A-5
Q3808	A-5
Q3809	A-5
Q3810	B-4
Q3811	A-5
Q3812	D-7
Q3813	E-3
Q3814	B-1
Q3815	B-1
Q3816	F-3
Q3817	A-3
Q3818	C-1
Q3819	A-3
Q3820	B-4
Q3821	B-1
Q3822	B-5
Q3823	B-4
Q3824	E-2
Q3825	D-2
Q3826	E-3
Q3827	C-2
Q3828	A-3
Q3829	A-3

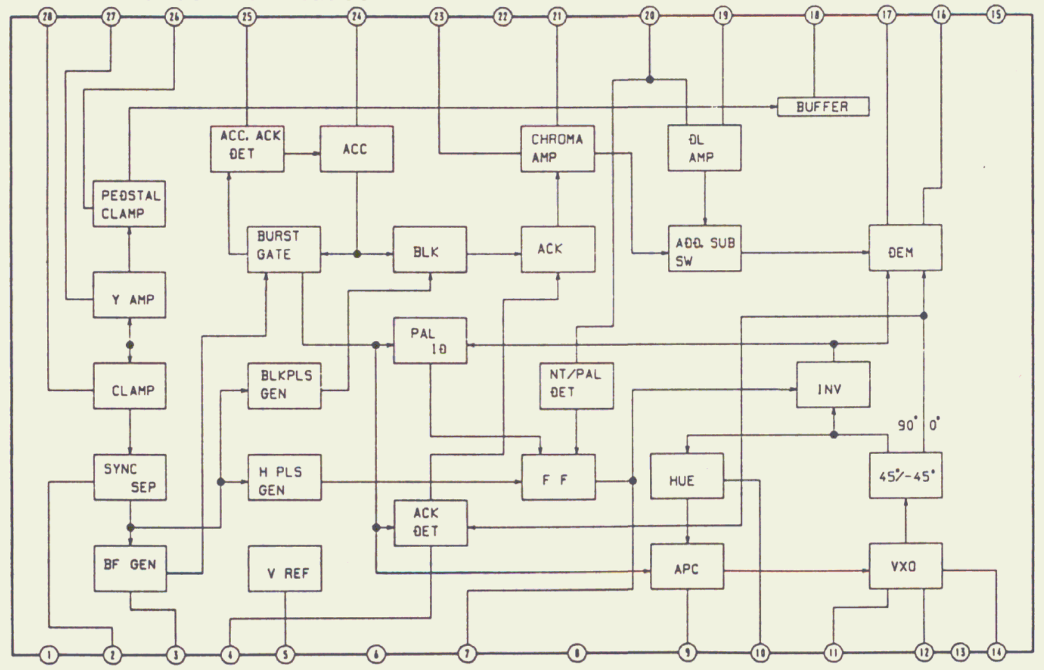
DIODE	
D3201	D-7
D3203	D-1
D3205	C-6
D3206	B-7

VARIABLE RESISTOR	
RV3101	E-6
RV3801	B-1
RV3802	B-3
RV3804	A-1
RV3805	A-4
RV3806	A-4

P BOARD

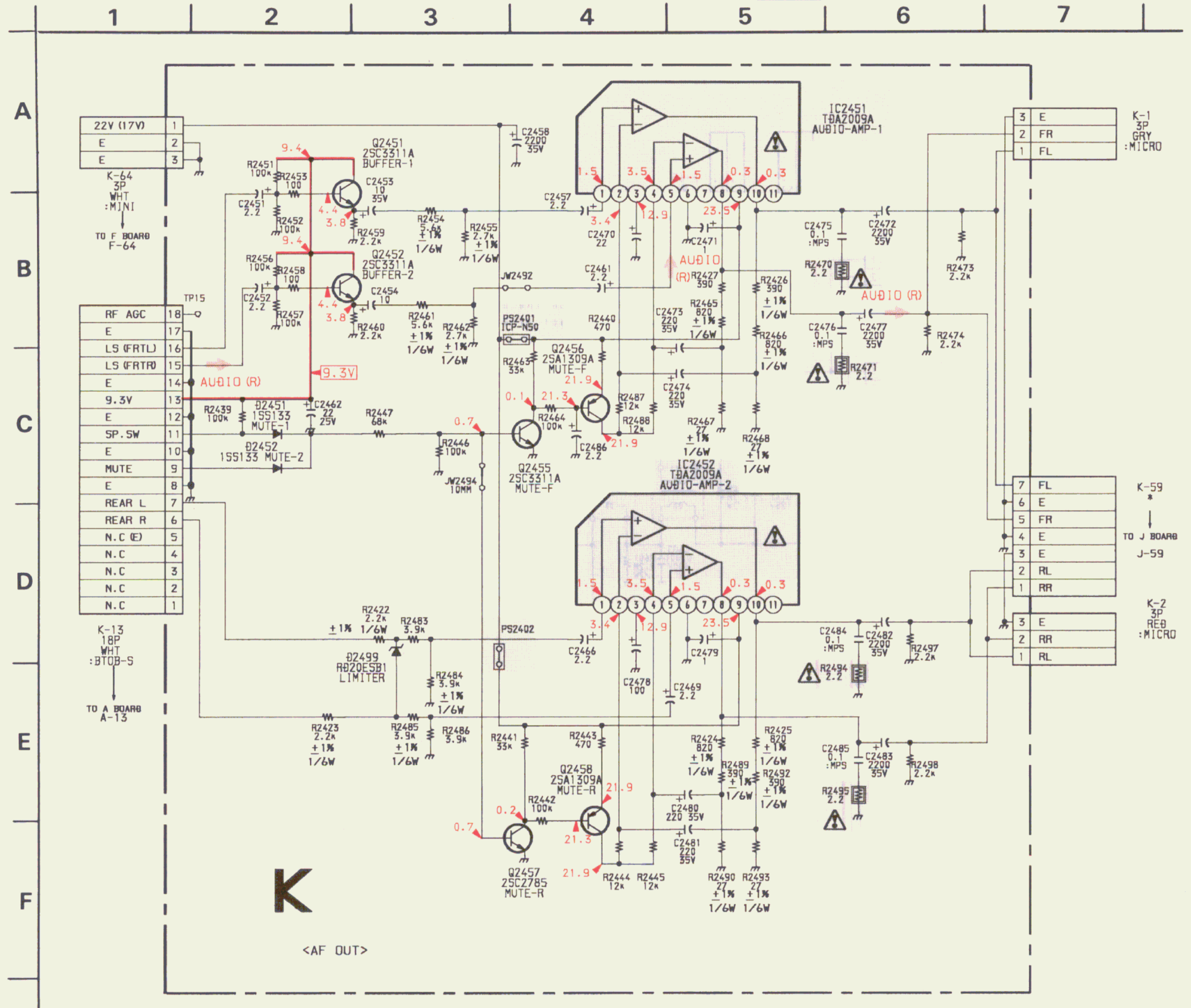

(70)
5 Vp-p (H)
(71)
0.7Vp-p (H)
(72)
1.8Vp-p (H)
(73)
0.3Vp-p (H)
(74)
0.25Vp-p (H)
(75)
6 Vp-p (H)
(76)
1.3Vp-p (H)
(77)
0.9Vp-p (H)
(78)
0.9Vp-p (H)
(79)
0.6Vp-p (H)
(80)
0.6Vp-p (H)
(81)
0.6Vp-p (H)

P BOARD IC3803 CXA1228S

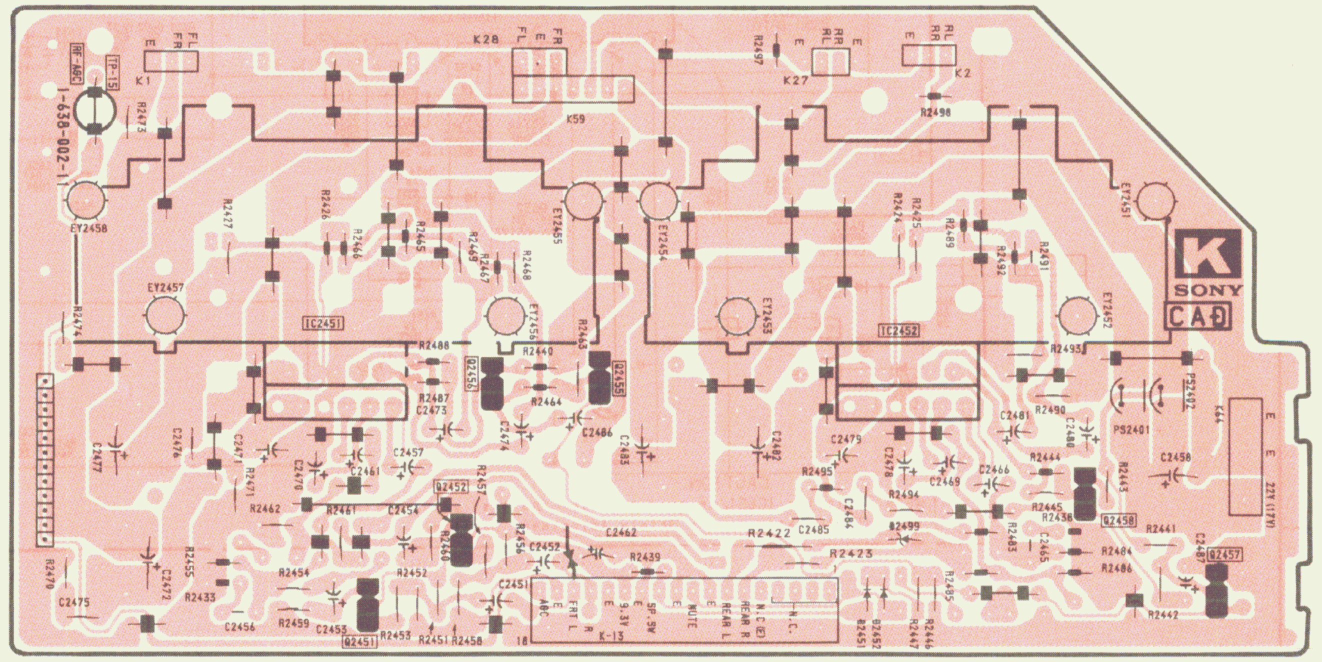

ACC. ACK DET
ACC
CHROMA AMP
DL AMP
BUFFER
PEDSTAL CLAMP
BURST GATE
BLK
ACK
ADD. SUB SW
DEM
Y AMP
PAL ID
NT/PAL DET
INV
CLAMP
BLKPLS GEN
90° 0°
SYNC SEP
H PLS GEN
F F
HUE
45°-45°
ACK DET
BF GEN
V REF
APC
VXO

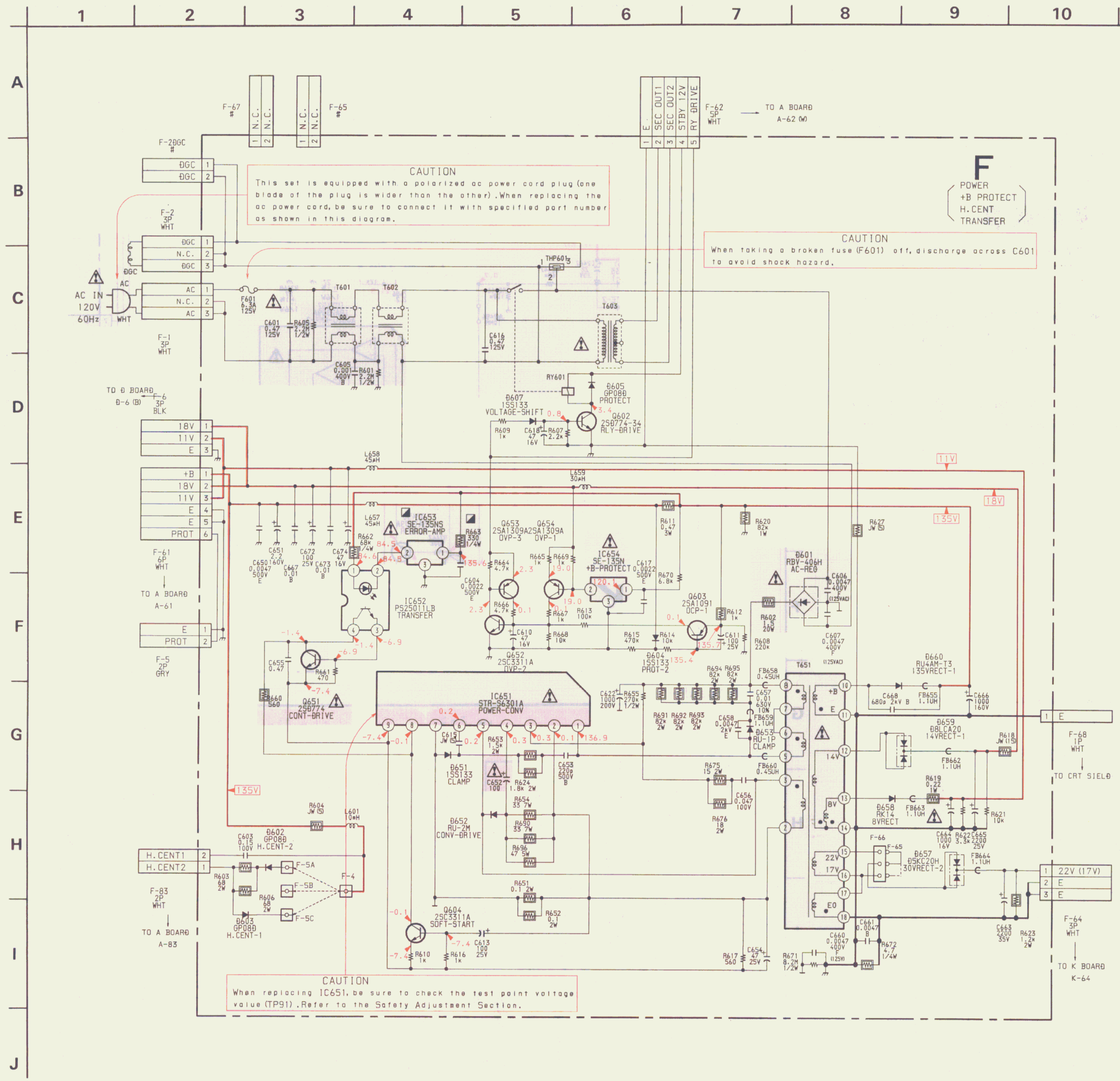
K

[AF OUT]


1
2
3
4
5
6
7
A
B
C
D
E
F
IC2451 TBA2009A AUDIO-AMP-1
IC2452 TBA2009A AUDIO-AMP-2
Q2451 2SC3311A BUFFER-1
Q2452 2SC3311A BUFFER-2
Q2455 2SC3311A MUTE-F
Q2456 2SA1309A MUTE-F
Q2457 2SC2785 MUTE-R
Q2458 2SA1309A MUTE-R
D2451 1SS133 MUTE-1
D2452 1SS133 MUTE-Z
D2499 RD20ES B1 LIMITER
AUDIO (R)
AUDIO (L)
AUDIO (R)
9.3V
RF AGC
LS (FRTL)
LS (FRTR)
SP. SW
MUTE
REAR L
REAR R
K-64
TO F BOARD F-64
K-13
TO A BOARD A-13
K-59
TO J BOARD J-59
K-1 SP GRY (MICRO)
K-2 SP RED (MICRO)
K
<AF OUT>

— K Board —


G
H
I
J
K
SONY
CAD
1-638-002-11
IC2451
IC2452


1
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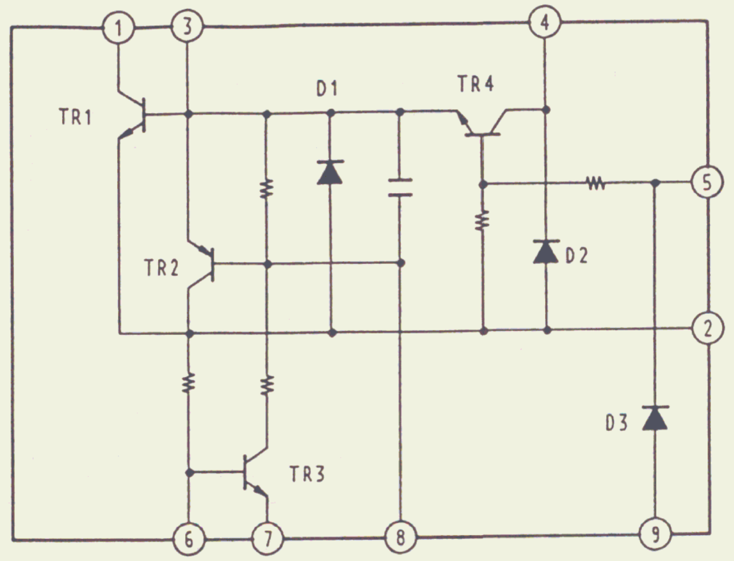
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
F
POWER
+B PROTECT
H.CENT
TRANSFER
F-67
F-65
N.C.
E
SEC OUT1
SEC OUT2
STBY 12V
RY DRIVE
F-62
TO A BOARD
A-62
F-280C
ÐGC
F-2
3P
WHT
AC IN
120V
60Hz
F-1
3P
WHT
F601
T601
T602
T603
THP601
C601
R605
RY601
D605
GP08D
PROTECT
D607
1SS133
VOLTAGE-SHIFT
Q602
2SD774-34
RLY-DRIVE
TO G BOARD
G-6
F-6
3P
BLK
18V
11V
+B
PROT
F-61
6P
WHT
TO A BOARD
A-61
F-5
2P
GRY
IC653
SE-135N5
ERROR-AMP
IC652
PS2501LB
TRANSFER
Q653
2SA1309A
OVP-3
Q654
2SA1309A
OVP-1
IC654
SE-135N
+B-PROTECT
Q603
2SA1091
OCP-1
D601
RBV-406H
AC-REC
Q651
2SD774
CONT-DRIVE
IC651
STR-S6301A
POWER-CONV
Q652
2SC3311A
OVP-2
D604
1SS133
PROT-2
D651
1SS133
CLAMP
D652
RU-2M
CONV-DRIVE
D653
RU-1P
CLAMP
T651
D660
RU4AM-T3
135VRECT-1
D659
D8LA20
14VRECT-1
D658
RK14
8VRECT
D657
D5KC20H
30VRECT-2
135V
11V
18V
F-68
1P
WHT
TO CRT SIELD
22V (17V)
F-64
3P
WHT
TO K BOARD
K-64
H.CENT1
H.CENT2
F-83
2P
WHT
TO A BOARD
A-83
Q602
GP08D
H.CENT-2
D603
GP08D
H.CENT-1
Q604
2SC3311A
SOFT-START
F-5A
F-5B
F-5C
F-4

CAUTION
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.

CAUTION
When taking a broken fuse (F601) off, discharge across C601 to avoid shock hazard.

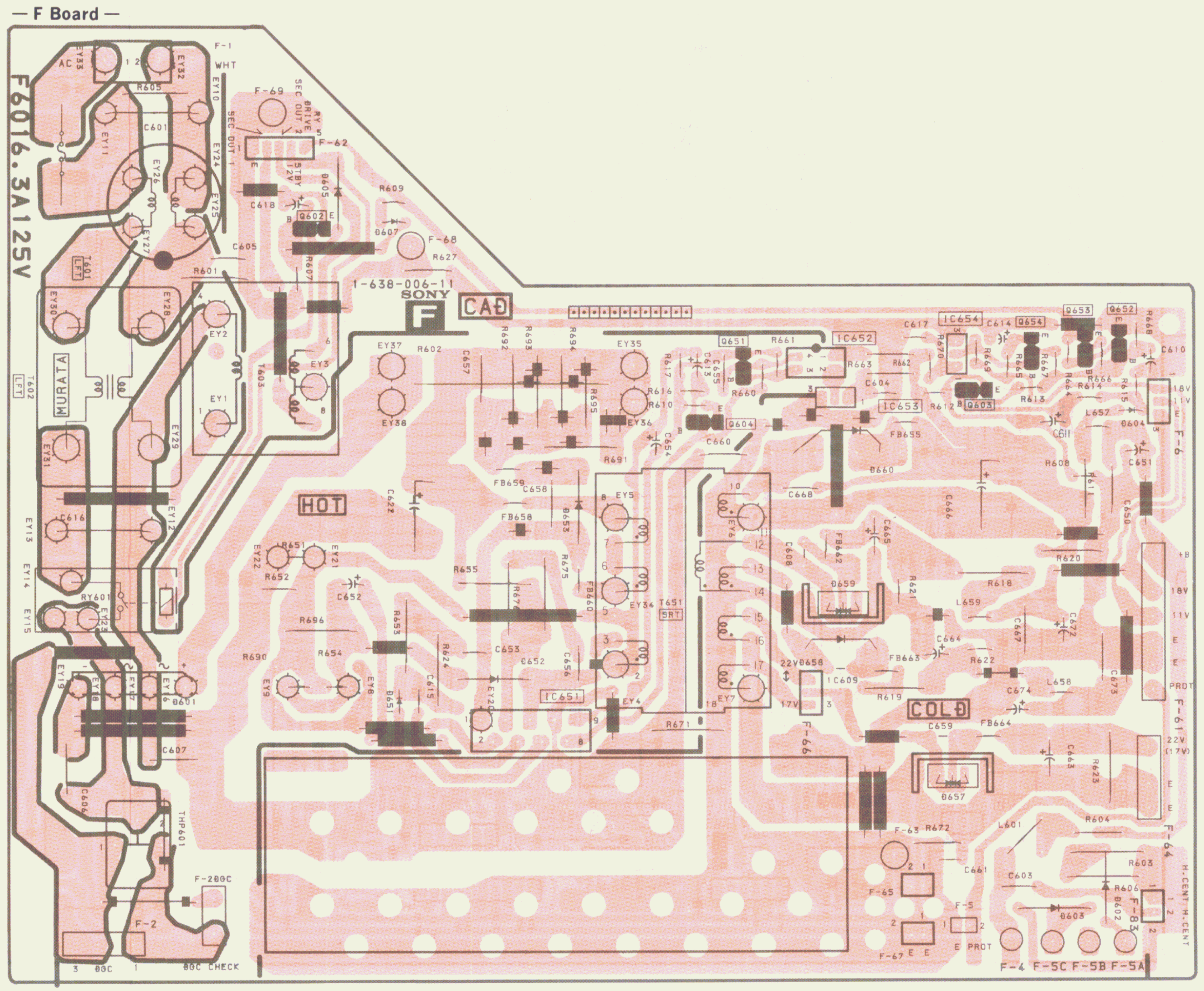
CAUTION
When replacing IC651, be sure to check the test point voltage value (TP91). Refer to the Safety Adjustment Section.

F BOARD IC651 STR-S6301A


①
②
③
④
⑤
⑥
⑦
⑧
⑨
TR1
TR2
TR3
TR4
D1
D2
D3

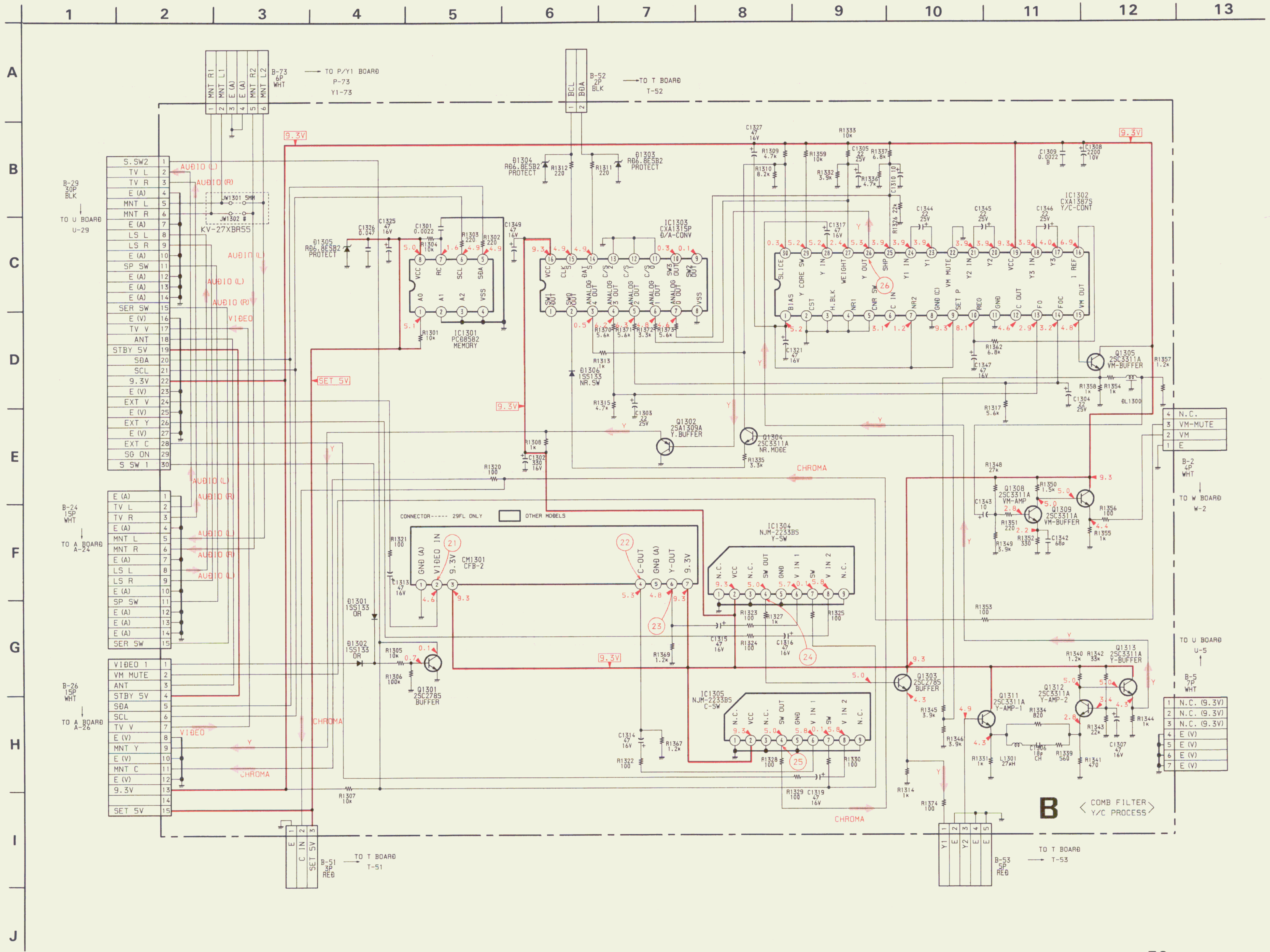
F [POWER, +B PROTECT
H. CENT, TRANSFER]

— F Board —

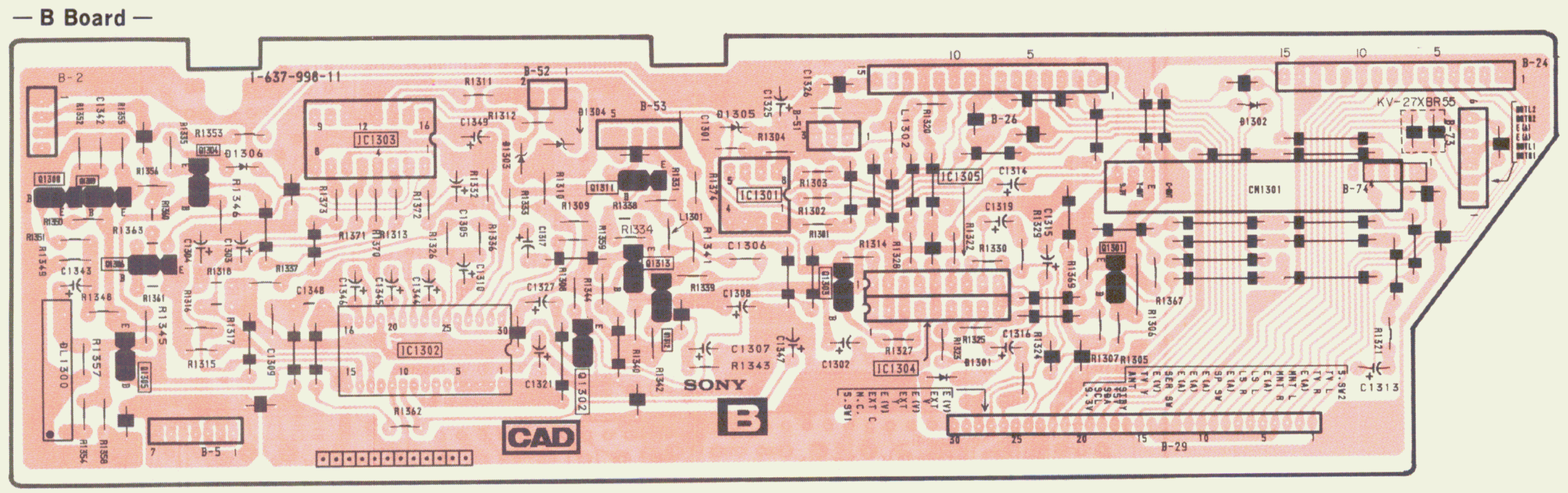

F6016.3A125V
MURATA
1-638-006-11
SONY
F
CAD
HOT
COLD
F-1
WHT
F-69
F-62
F-68
IC651
IC652
IC653
IC654
T651
T601
T602
T603
RY601
THP601
F-280C
ÐGC
ÐGC CHECK
F-67
F-65
F-4
F-5C
F-5B
F-5A
F-6
F-61
F-64
F-5
H.CENT

[COMB FILTER Y/C PROCESS]

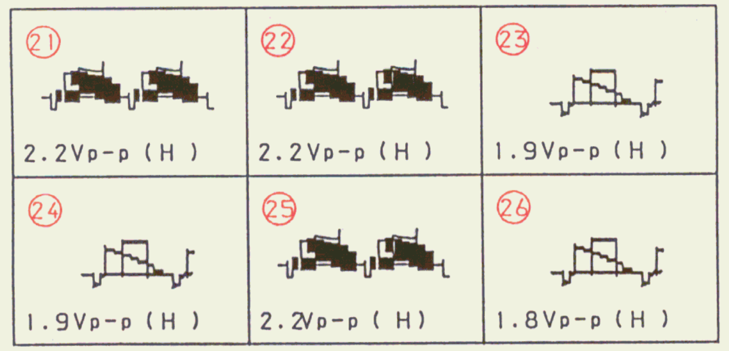
B


1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H I J
B-73 6P WHT TO P/Y1 BOARD P-73 Y1-73
B-52 2P BLK TO T BOARD T-52
B-29 30P BLK TO U BOARD U-29
B-24 15P WHT TO A BOARD A-24
B-26 15P WHT TO A BOARD A-26
B-51 3P RED TO T BOARD T-51
B-53 5P RED TO T BOARD T-53
B-2 4P WHT TO W BOARD W-2
B-5 7P WHT TO U BOARD U-5
IC1301 PCF8582 MEMORY
IC1303 CXA1315P D/A-CONV
IC1302 CXA1387S Y/C-CONT
IC1304 NJM-2233BS Y-SW
IC1305 NJM-2233BS C-SW
CM1301 CFB-2
Q1301 2SC2785 BUFFER
Q1302 2SA1309A Y.BUFFER
Q1303 2SC2785 BUFFER
Q1304 2SC3311A NR.MODE
Q1305 2SC3311A VM-BUFFER
Q1308 2SC3311A VM-AMP
Q1309 2SC3311A VM-BUFFER
Q1311 2SC3311A Y-AMP-1
Q1312 2SC3311A Y-AMP-2
Q1313 2SC3311A Y-BUFFER
D1304 RD6.8ESB2 PROTECT
D1303 RD6.8ESB2 PROTECT
D1305 RD6.8ESB2 PROTECT
D1306 1SS133 NR.SW
D1301 1SS133 OR
D1302 1SS133 OR
AUDIO (L) AUDIO (R) VIDEO CHROMA Y
9.3V SET 5V
KV-27XBR55
CONNECTOR ----- 29FL ONLY
OTHER MODELS
B
COMB FILTER Y/C PROCESS

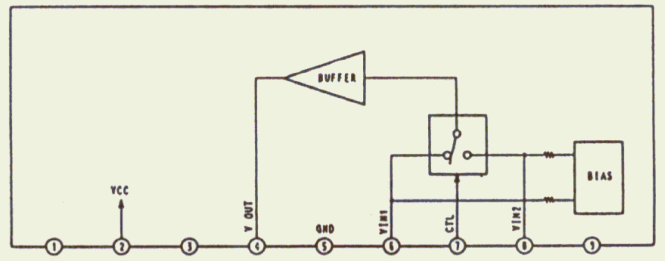
— B Board —


1-637-998-11
IC1303 IC1301 IC1302 IC1304 IC1305
B-2 B-5 B-29 B-52 B-53 B-74
SONY
CAD
B
KV-27XBR55

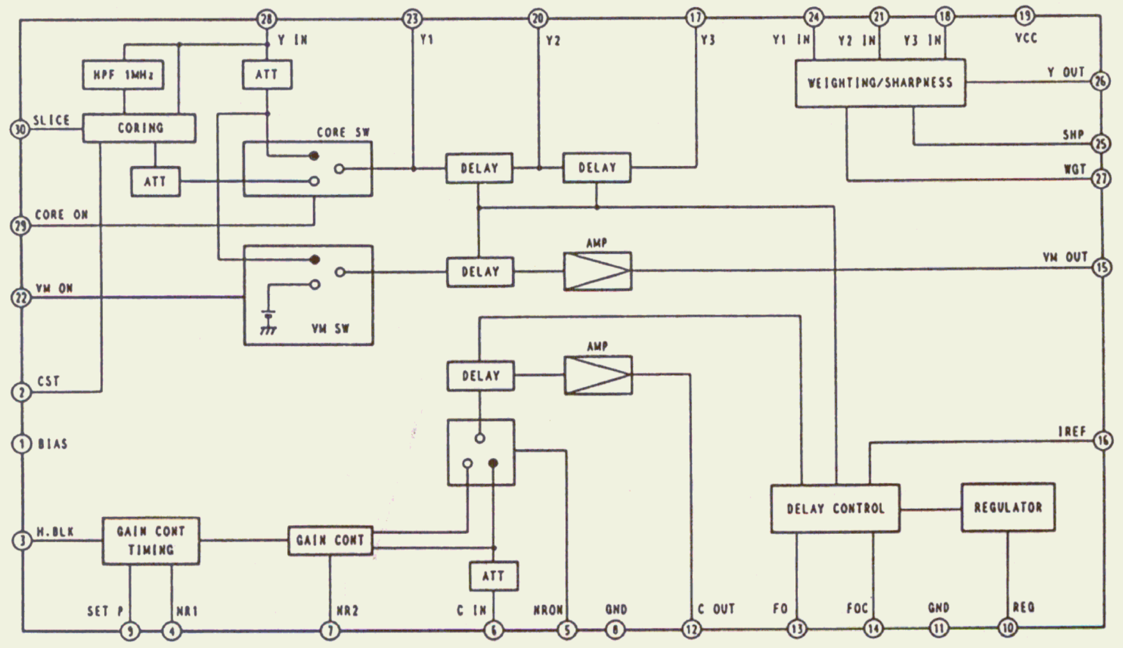
B BOARD



B BOARD IC1304, 1305 NJM2233BS

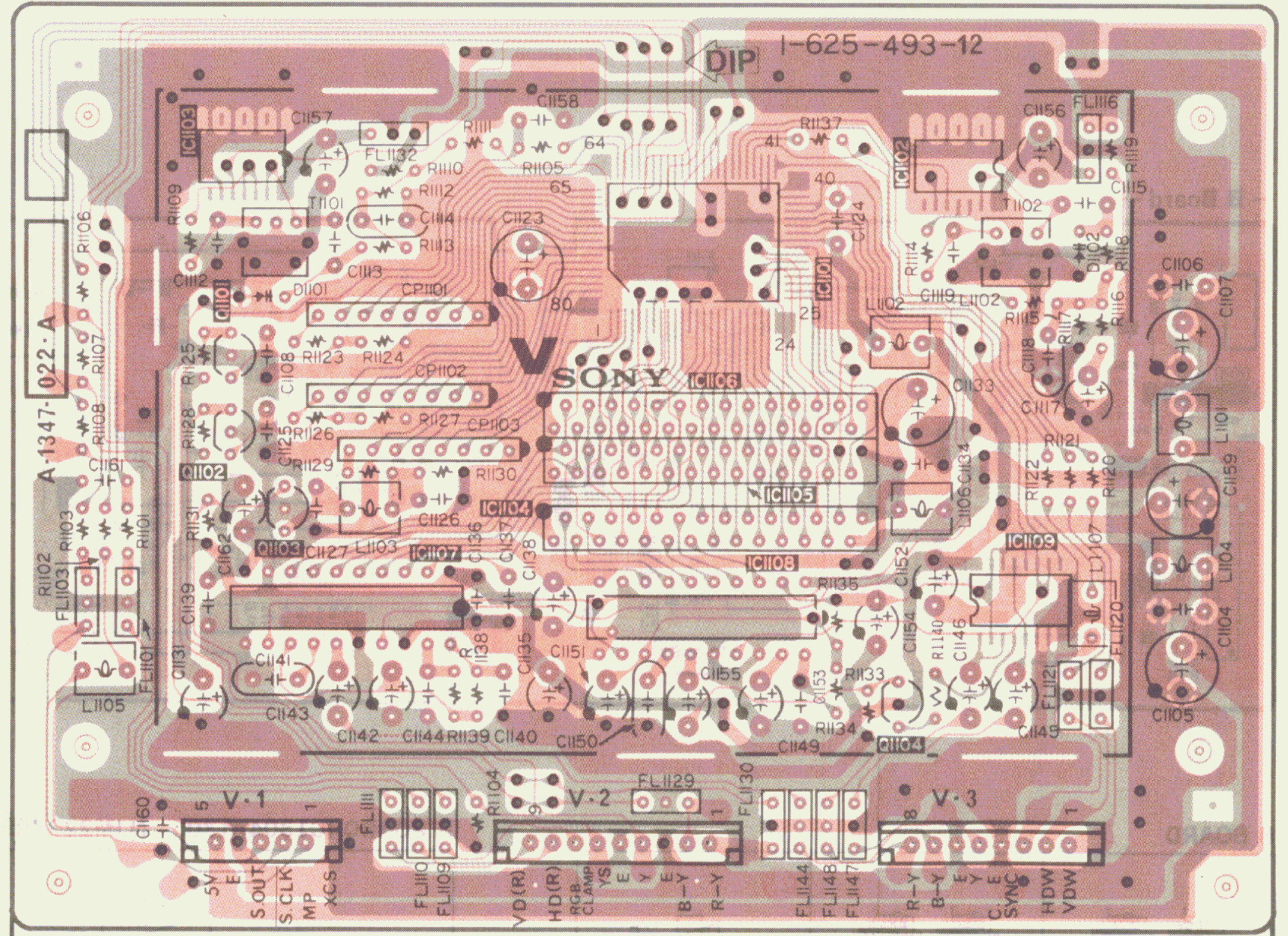

BUFFER
BIAS
VCC
Y OUT
GND
V IN1
CTL
V IN2

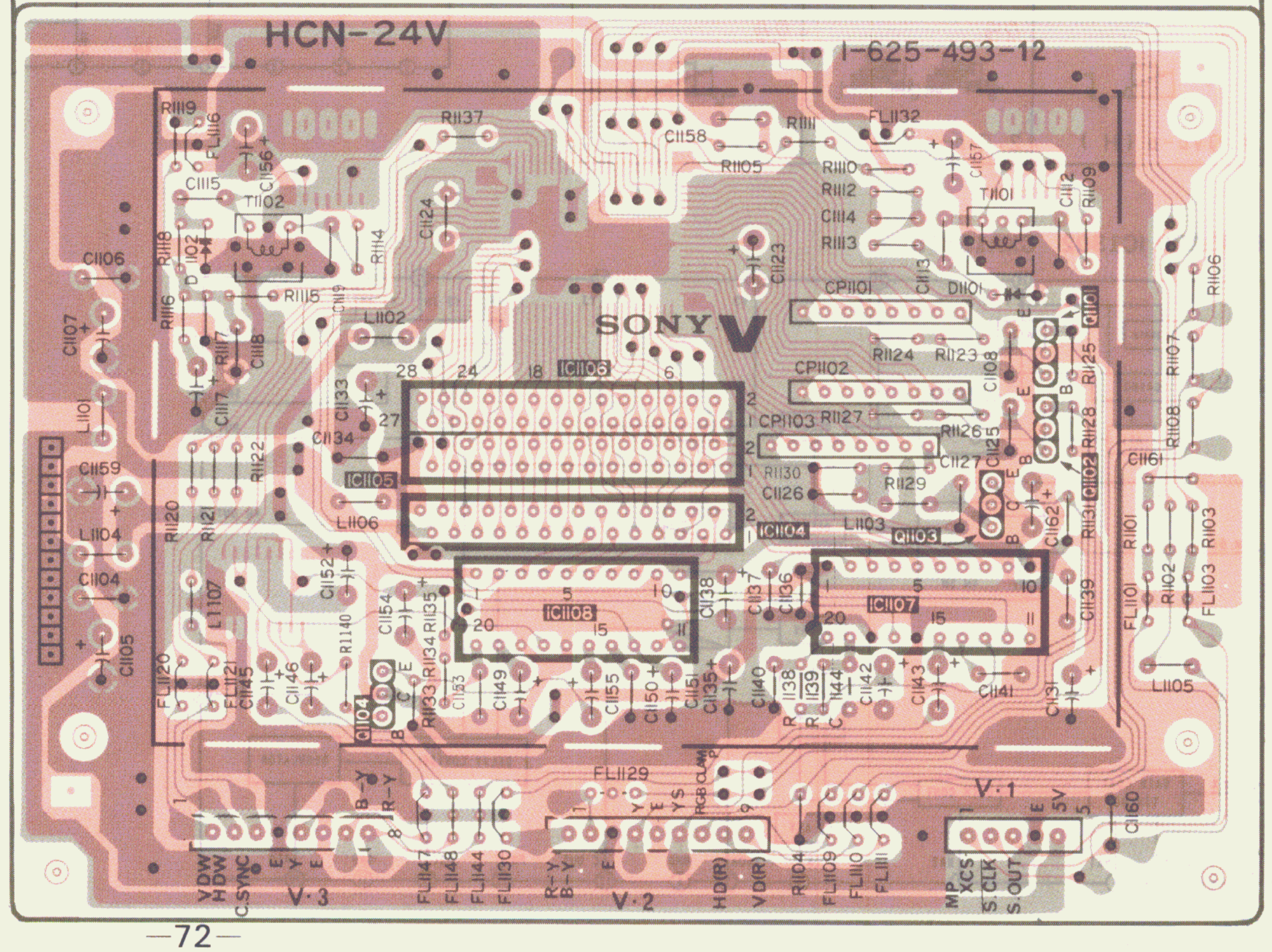
B BOARD IC1302 CXA1387S


Y IN
Y1
Y2
Y3
Y1 IN
Y2 IN
Y3 IN
VCC
HPF 1MHz
ATT
CORING
CORE SW
DELAY
AMP
WEIGHTING/SHARPNESS
Y OUT
SHP
WGT
VM OUT
SLICE
CORE ON
VM ON
VM SW
CST
BIAS
H.BLK
GAIN CONT TIMING
GAIN CONT
DELAY CONTROL
REGULATOR
IREF
SET P
NR1
NR2
C IN
NRON
GND
C OUT
FO
FOC
REG

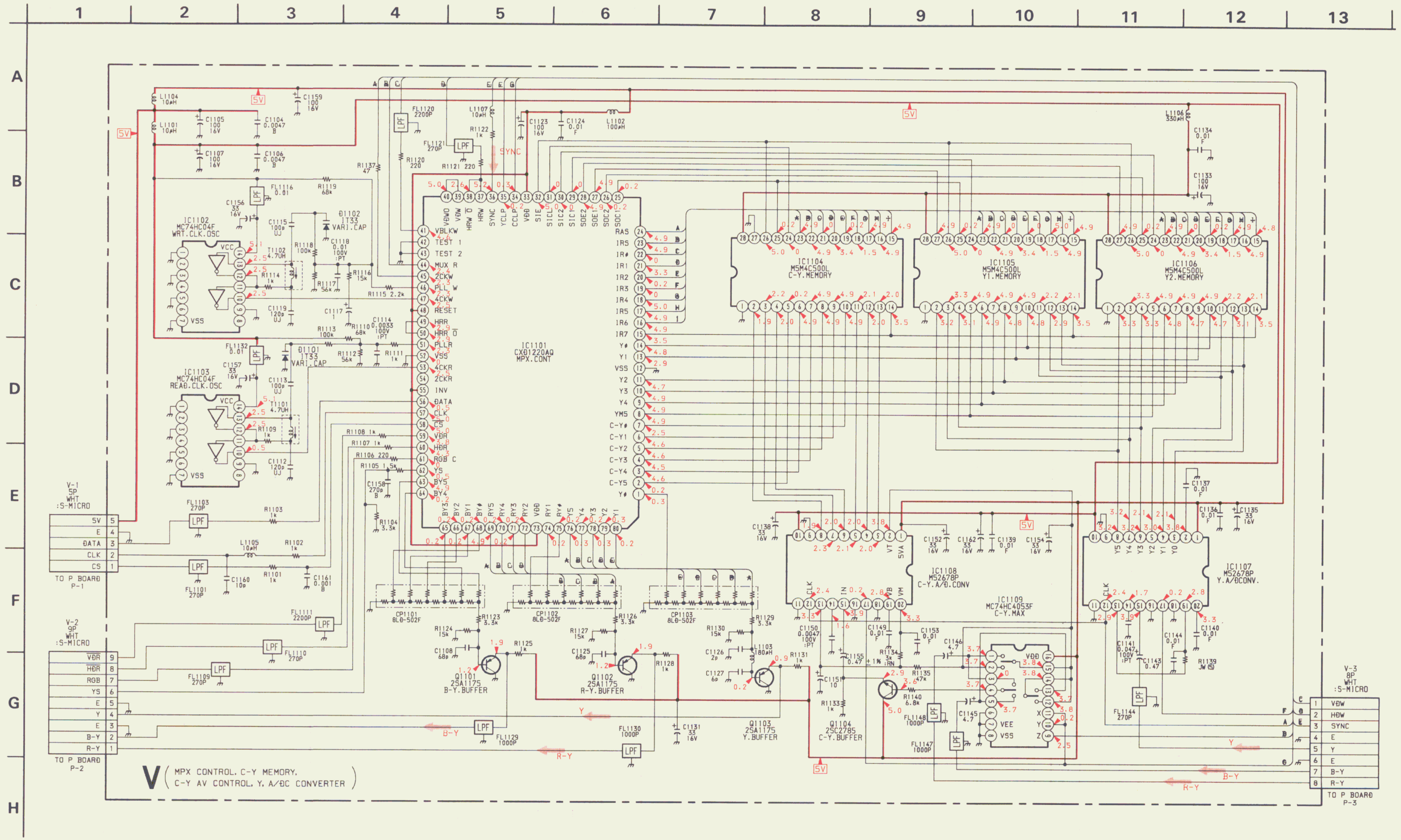
V MPX CONTROL, C-Y MEMORY
C-Y AV CONTROL, Y. A/DC CONVERTER

— V Board — (KV-27XBR55 ONLY)

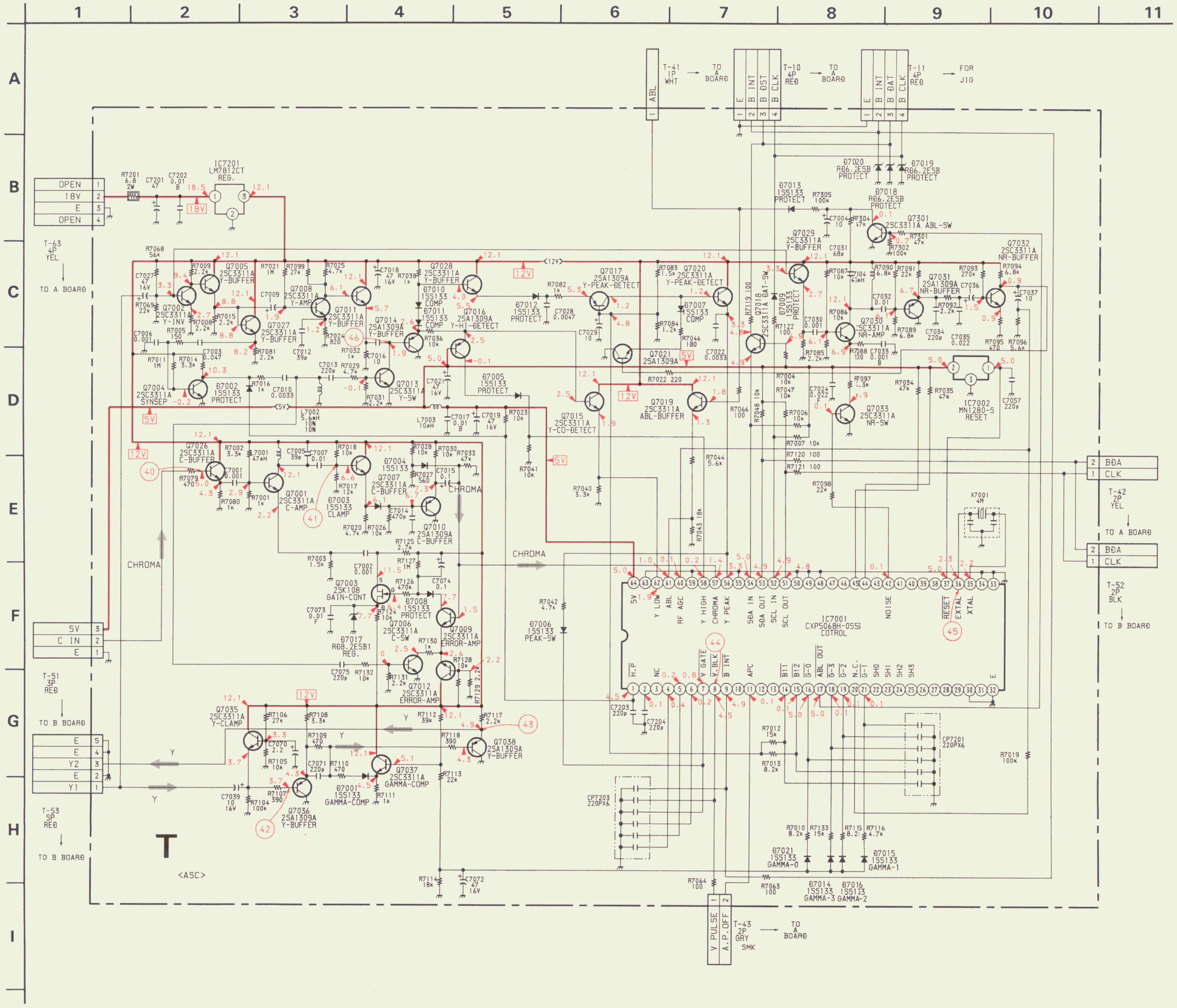

1-625-493-12
DIP
SONY
V
V-1
V-2
V-3
IC1101
IC1105
IC1106
IC1108
IC1109
A-1347-022-A


HCN-24V
1-625-493-12
SONY
V
IC1103
IC1104
IC1107
IC1108
V-1
V-2
V-3

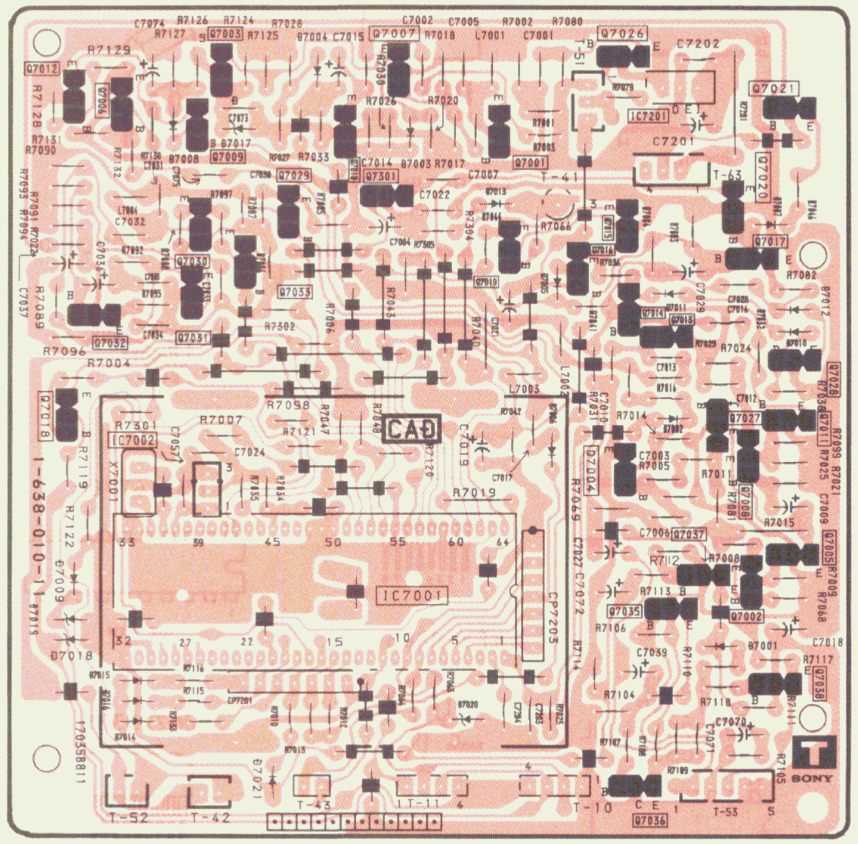
▨ : conductor side.
▨ : component side.


1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
IC1101
CXD1220AQ
MPX.CONT
IC1102
MC74HC04F
WRT.CLK.OSC
IC1103
MC74HC04F
READ.CLK.OSC
IC1104
MSM4C500L
C-Y.MEMORY
IC1105
MSM4C500L
Y1.MEMORY
IC1106
MSM4C500L
Y2.MEMORY
IC1107
M52678P
Y.A/DCONV.
IC1108
M52678P
C-Y.A/B.CONV
IC1109
MC74HC4053F
C-Y.MAX
Q1101
2SA1175
B-Y.BUFFER
Q1102
2SA1175
R-Y.BUFFER
Q1103
2SA1175
Y.BUFFER
Q1104
2SC2785
C-Y.BUFFER
V-1
5P
WHT
:S-MICRO
TO P BOARD
P-1
V-2
9P
WHT
:S-MICRO
TO P BOARD
P-2
V-3
8P
WHT
:S-MICRO
TO P BOARD
P-3
5V
SYNC
LPF
V (MPX CONTROL, C-Y MEMORY, C-Y AV CONTROL, Y. A/DC CONVERTER)

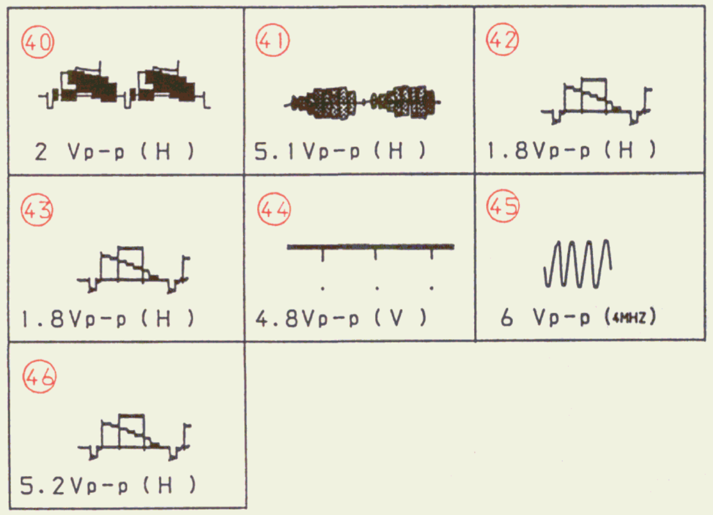
T [ASC]


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
T-41 1P WHT TO A BOARD
T-10 4P RED TO A BOARD
T-11 4P RED FOR JIG
IC7201 LM78I2CT REG.
OPEN
18V
E
OPEN
T-63 4P YEL TO A BOARD
CHROMA
5V
C IN
E
T-51 3P RED TO B BOARD
Y2
Y1
T-53 5P RED TO B BOARD
T
<ASC>
IC7001 CXP5068H-055S COTROL
IC7002 MN1280-S RESET
X7001 4M
BDA
CLK
T-42 2P YEL TO A BOARD
T-52 2P BLK TO B BOARD
T-43 2P GRY SMK TO A BOARD
V PULSE
A.P.OFF
Q7001 2SC3311A C-AMP
Q7003 2SK108 GAIN-CONT
Q7005 2SC3311A Y-BUFFER
Q7017 2SA1309A Y-PEAK-DETECT
Q7019 2SC3311A ABL-BUFFER
Q7030 2SC3311A NR-AMP
Q7301 2SC3311A ABL-SW
Q7035 2SC3311A Y-CLAMP
Q7036 2SA1309A Y-BUFFER
Q7037 2SC3311A GAMMA-COMP
Q7038 2SA1309A Y-BUFFER

— T Board —

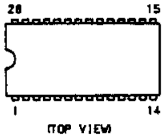

CAD
IC7001
SONY
T-52
T-42
T-43
T-11
T-10
T-53
1-638-010-11

T BOARD

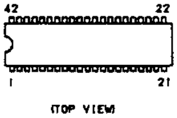

(40)
2 Vp-p (H)
(41)
5.1Vp-p (H)
(42)
1.8Vp-p (H)
(43)
1.8Vp-p (H)
(44)
4.8Vp-p (V)
(45)
6 Vp-p (4MHz)
(46)
5.2Vp-p (H)

6-4. SEMICONDUCTORS

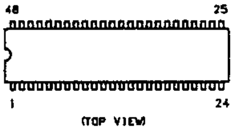
CXA1114P
CXA1228S


28
15
1
14
(TOP VIEW)

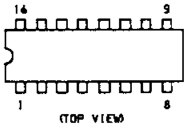
CXA1264AS


42
22
1
21
(TOP VIEW)

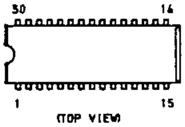
CXA1313S


48
25
1
24
(TOP VIEW)

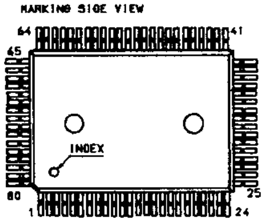
CXA1314P
CXA1315P
CXA1414P
MB88201-638L
μPD4053BC


16
9
1
8
(TOP VIEW)

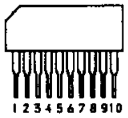
CXA1387S


30
16
1
15
(TOP VIEW)

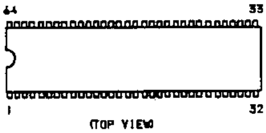
CXD1220AQ


MARKING SIDE VIEW
64
41
65
INDEX
80
25
1
24

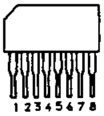
CXK1006L


1 2 3 4 5 6 7 8 9 10

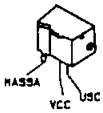
CXP5068H-SV2764
M37200M6-A16SP


64
33
1
32
(TOP VIEW)

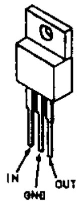
CX20061



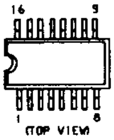
KEY-C00SV-F


MASSA
VCC
OSC

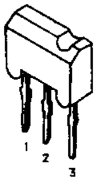
LM7812CT
LM7805CT
M5F78M05L
RC7812FA
TA7805S
μPC7893HF



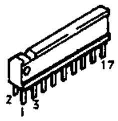
MC74HC4053F


16
9
1
8
(TOP VIEW)

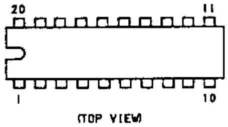
MN11280S



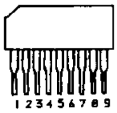
M5M4C500L-10



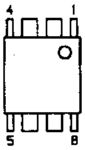
M5216778P


20
11
1
10
(TOP VIEW)

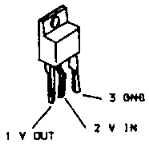
NJM2233BS



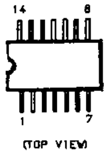
PCD8582



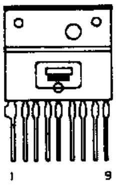
SE-135N
SE-135NS


3 GND
1 V OUT
2 V IN

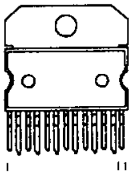
SN74HC04ANS


14
8
1
7
(TOP VIEW)

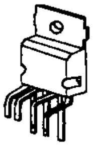
STR-S6301A



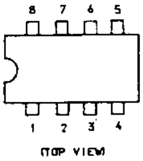
TDA2009A



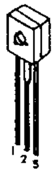
TDA8172



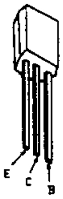
μPC393C


8 7 6 5
1 2 3 4
(TOP VIEW)

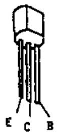
μPC78N05H



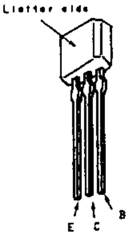
DTC144ES



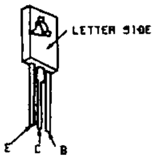
2SA1091-0
2SD2551-0



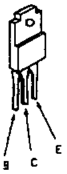
2SA1175-HFE
2SA1309A-QRS
2SC2785-HFE
2SC3311A-QRS


Letter side
E
C
B

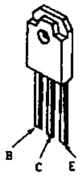
2SC2611
2SC2688-LK


LETTER SIDE
E
C
B

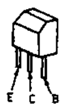
2SC3298B-Y



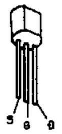
2SD1941-06



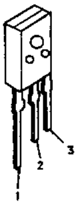
2SD774-34



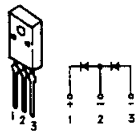
2SK108-C



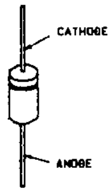
D5KC40H
D8LLCA20



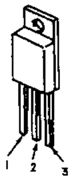
D5KD20H



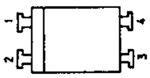
RGP20G
EL1Z
RGP02-17
1SS83


CATHODE
ANODE

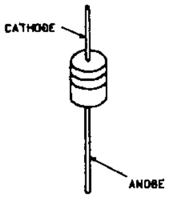
FMS-3FU



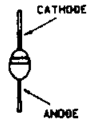
PC1817-C
PS2501-1LB



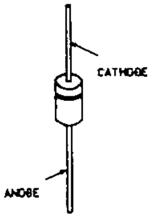
RD10ESSB2
RD18ESB1
RD20ESB1
RD30ESB2
RD33ESB3
RD3.6ESL1
RD4.7ESB2
RD5.1ESB1
RD5.6ESB2
RD6.2ESB2
RD6.8ESB1
RD6.8ESB2
WG713A
XDC144ES
1SS119
1SV113


CATHODE
ANODE

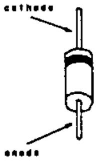
RG3G-50071
U05G


CATHODE
ANODE

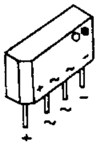
RK14
RU-1P
RU-3AM


CATHODE
ANODE

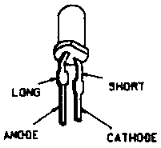
RU-4DS


cathode
anode

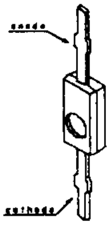
S1VB40



TLR124


LONG
SHORT
ANODE
CATHODE

1T33


anode
cathode

SECTION 7
EXPLODED VIEWS

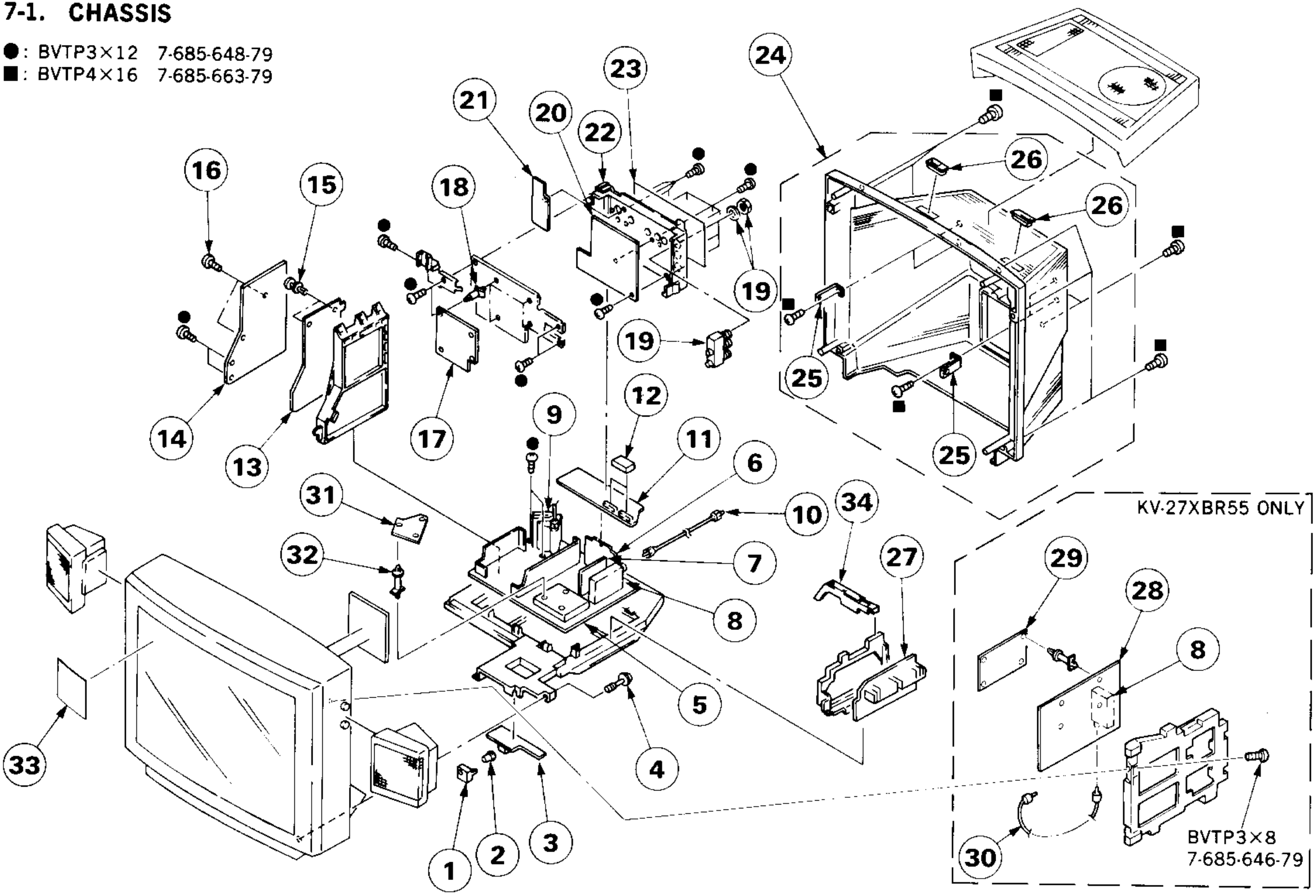
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

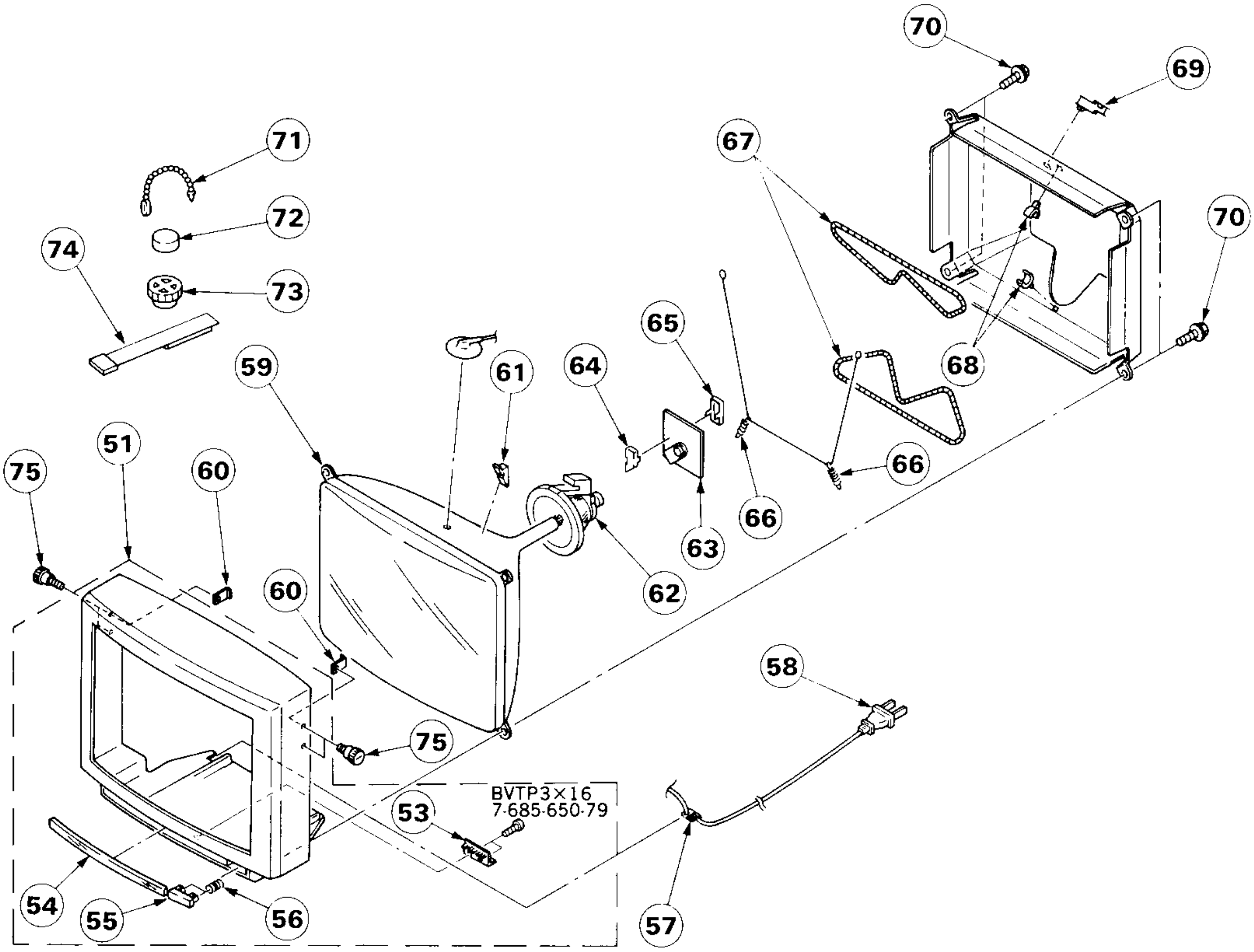
7-1. CHASSIS

●: BVTP3×12 7-685-648-79
■: BVTP4×16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*4-381-686-01	BRACKET(B), LIGHT GUIDE	
2	*4-374-987-01	GUIDE, LIGHT	
3	*1-638-008-11	H6 BOARD	
4	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
5	*A-1296-830-A	A BOARD, COMPLETE	7
6	8-741-682-01	IC SBX1682-01	
7	*1-635-250-11	XI BOARD	
8	⚠1-463-771-11	TUNER, ET (BTP-201A)	
9	⚠1-439-455-11	TRANSFORMER ASSY, FLYBACK (NX-2300)	
10	*1-556-945-21	CABLE, P-P	
11	*A-1135-669-A	B BOARD, COMPLETE (KV-27XBR55(U/C) ONLY)	
	*A-1135-677-A	B BOARD, COMPLETE (KV-27XBR51(U/C) ONLY)	
12	*1-568-507-11	CONNECTOR, BRIDGE 15P	
13	*1-629-628-11	FO BOARD	
14	*A-1245-527-A	F BOARD, COMPLETE	
15	3-531-576-31	RIVET (DIA. 3), NYLON	
16	4-388-477-01	SCREW(3X16),TAPPING,+BV WASHER	
17	*A-1394-308-A	T BOARD, COMPLETE	
18	*3-703-353-04	SUPPORT, PC BOARD	
19	⚠1-417-177-11	SELECTOR, ANTENNA (AS-1) (KV-27XBR51(U/C) ONLY	
	⚠1-417-178-11	SELECTOR, ANTENNA (AS-2) (KV-27XBR55(U/C) ONLY	
20	*A-1394-283-A	U BOARD, COMPLETE	
21	*1-638-001-11	J BOARD	
22	4-393-419-31	TERMINAL BOARD, ANTENNA	
23	4-389-643-01	LABEL, ANTENNA	
24	X-4029-453-1	COVER ASSY, REAR	25,26 (KV-27XBR55(U/C) ONLY)
	X-4393-417-1	COVER ASSY, REAR	25,26 (KV-27XBR51(U/C) ONLY)
25	4-389-636-01	HOLDER (B), SP	
26	4-389-644-01	HOLDER, 3D	
27	*A-1385-095-A	K BOARD, COMPLETE	
28	*A-1195-040-A	P BOARD, COMPLETE (KV-27XBR55(U/C) ONLY)	
29	*A-1347-039-A	V BOARD, COMPLETE (KV-27XBR55(U/C) ONLY)	
30	*1-557-056-31	CABLE, P-P (KV-27XBR55(U/C) ONLY)	
31	*1-638-668-11	F1 BOARD	
32	*3-703-353-06	SUPPORT, PC BOARD	
33	*3-703-703-01	STICKER, SONY SYMBOL (50)	
34	4-393-435-05	BRACKET, Y	

7-2. PICTURE TUBE



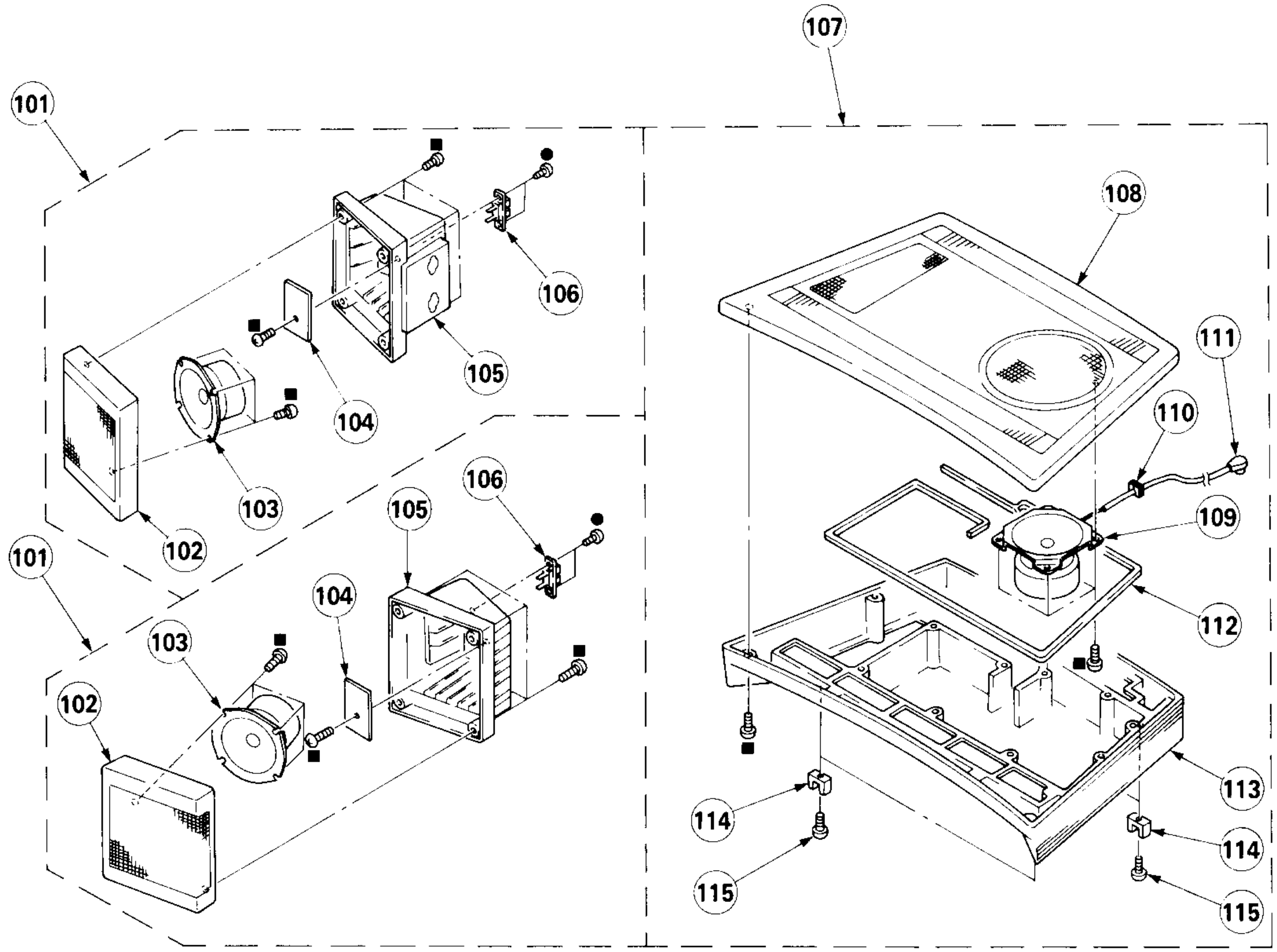
The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4029-452-1	CABINET ASSY (WITH BEZEL ASSY) 53-56 (KV-27XBR55(U/C) ONLY)	
	X-4029-452-2	CABINET ASSY (WITH BEZEL ASSY) 53-56 (KV-27XBR51(U/C) ONLY)	
53	X-4029-610-1	BUTTON ASSY, MULTI	
54	4-031-129-01	PANEL, ORNAMENTAL (KV-27XBR55(U/C) ONLY)	
	4-031-129-11	PANEL, ORNAMENTAL (KV-27XBR51(U/C) ONLY)	
55	4-393-467-01	BUTTON, POWER	
56	4-389-658-01	SPRING, COMPRESSION	
57	⚠4-388-328-01	GROMMET, AC CORD	
58	⚠1-590-492-11	CORD, POWER (WITH CONNECTOR)	
59	⚠8-737-753-05	PICTURE TUBE (A68JMT50X)	
60	4-389-637-01	HOLDER (A), SP	
61	3-704-495-01	SPACER, DY	
62	⚠1-451-275-31	DEFLECTION YOKE (Y28PFA)	
63	*A-1331-138-A	C BOARD, COMPLETE	
64	*4-379-167-01	COVER (MAIN), CV	
65	*4-379-160-01	COVER (REAR LID), CV	
66	4-369-318-00	SPRING, TENSION	
67	⚠1-426-350-11	COIL, DEMAGNETIZATION	
68	*4-371-629-01	STOPPER, WIRE	
69	*4-387-284-01	HOLDER, LEAD	
70	4-390-505-01	SCREW (7), TAPPING	
71	4-308-870-00	CLIP, LEAD WIRE	
72	1-452-032-00	MAGNET, DISK; 10MM ϕ	
73	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
74	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
75	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	

7-3. SPEAKERS

●: BVTP3×12 7-685-648-79
■: BVTP4×16 7-685-663-79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REF.NO.	PART NO.	DESCRIPTION	REMARK
101	*A-1478-508-A	SP BLOCK ASSY	102-106
102	X-4388-331-1	BOX ASSY, FRONT SPEAKER	
103	1-544-320-11	SPEAKER	
104	*1-634-376-11	S BOARD	
105	X-4388-332-1	BOX ASSY, REAR SPEAKER	
106	1-537-022-21	TERMINAL BOARD (SPEAKER)	
107	*A-1478-507-A	WOOFER BLOCK ASSY	108-115
108	X-4388-335-1	BOX ASSY, WOOFER	
109	1-544-221-11	SPEAKER	
110	4-389-661-01	HOLDER, SPEAKER CORD	
111	1-575-109-11	CORD, CONNECTION	
112	*4-389-653-01	PACKING	
113	*4-389-657-01	BOX (L), WOOFER	
114	4-389-642-01	FOOT	
115	4-304-494-11	SCREW, TAPPING, +PW4X16	

B

SECTION 8
ELECTRICAL PARTS LIST

NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1135-677-A	B BOARD, COMPLETE (KV-27XBR51(U/C) ONLY) *****************	
	*A-1135-669-A	B BOARD, COMPLETE (KV-27XBR55(U/C) ONLY) *****************	
	*1-564-505-11	PLUG, CONNECTOR 2P	
	*1-564-506-11	PLUG, CONNECTOR 3P	
	*1-564-507-11	PLUG, CONNECTOR 4P	
	*1-564-508-11	PLUG, CONNECTOR 5P	
	*1-564-509-11	PLUG, CONNECTOR 6P	
	1-566-942-11	CONNECTOR,HINGE(RECEPTACLE)30P	
	*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P	
	*1-568-376-11	CONNECTOR,HINGE (RECEPTACLE)7P	

<CAPACITOR>

C1301	1-130-728-00	FILM	0.0022MF	5%	50V
C1302	1-124-119-00	ELECT	330MF	20%	16V
C1303	1-126-233-11	ELECT	22MF	20%	25V
C1304	1-126-233-11	ELECT	22MF	20%	25V
C1305	1-126-233-11	ELECT	22MF	20%	25V
C1306	1-164-052-11	CERAMIC	18PF	5%	50V
C1307	1-124-477-11	ELECT	47MF	20%	16V
C1308	1-124-893-11	ELECT	2200MF	20%	10V
C1309	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C1310	1-124-907-11	ELECT	10MF	20%	50V
C1313	1-124-477-11	ELECT	47MF	20%	16V
C1314	1-124-477-11	ELECT	47MF	20%	16V
C1315	1-124-477-11	ELECT	47MF	20%	16V
C1316	1-124-589-11	ELECT	47MF	20%	16V
C1317	1-124-477-11	ELECT	47MF	20%	16V
C1319	1-124-477-11	ELECT	47MF	20%	16V
C1321	1-124-477-11	ELECT	47MF	20%	16V
C1325	1-124-477-11	ELECT	47MF	20%	16V
C1326	1-136-161-00	FILM	0.047MF	5%	50V
C1327	1-124-477-11	ELECT	47MF	20%	16V
C1342	1-164-066-11	CERAMIC	68PF	5%	50V
C1343	1-124-907-11	ELECT	10MF	20%	50V
C1344	1-126-233-11	ELECT	22MF	20%	25V
C1345	1-126-233-11	ELECT	22MF	20%	25V
C1346	1-126-233-11	ELECT	22MF	20%	25V
C1347	1-124-477-11	ELECT	47MF	20%	16V
C1349	1-124-477-11	ELECT	47MF	20%	16V

<FILTER BLOCK>

CM1301	1-464-880-11	FILTER BLOCK, COM (CFB-2)

<DIODE>

D1301	8-719-911-19	DIODE 1SS119
D1302	8-719-911-19	DIODE 1SS119
D1303	8-719-109-97	DIODE RD6.8ES-B2
D1304	8-719-109-97	DIODE RD6.8ES-B2
D1305	8-719-109-97	DIODE RD6.8ES-B2
D1306	8-719-911-19	DIODE 1SS119

<DELAY LINE>

DL1300	1-415-831-11	DELAY LINE

<IC>

IC1301	8-759-972-43	IC PCD8582
IC1302	8-752-037-15	IC CXA1387S
IC1303	8-752-035-53	IC CXA1315P
IC1304	8-759-710-69	IC NJM2233BS
IC1305	8-759-710-69	IC NJM2233BS

<COIL>

L1301	1-410-668-11	INDUCTOR	27UH
L1302	1-410-663-31	INDUCTOR	10UH

<TRANSISTOR>

Q1301	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1302	8-729-423-44	TRANSISTOR 2SA1309A-QRS
Q1303	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1304	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q1305	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q1308	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q1309	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q1311	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q1312	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q1313	8-729-423-37	TRANSISTOR 2SC3311A-QRS

<RESISTOR>

R1301	1-249-429-11	CARBON	10K	5%	1/4W
R1302	1-249-409-11	CARBON	220	5%	1/4W
R1303	1-249-409-11	CARBON	220	5%	1/4W
R1304	1-249-429-11	CARBON	10K	5%	1/4W
R1305	1-249-429-11	CARBON	10K	5%	1/4W
R1306	1-249-441-11	CARBON	100K	5%	1/4W
R1307	1-249-429-11	CARBON	10K	5%	1/4W
R1308	1-249-417-11	CARBON	1K	5%	1/4W
R1309	1-249-425-11	CARBON	4.7K	5%	1/4W
R1310	1-249-428-11	CARBON	8.2K	5%	1/4W
R1311	1-249-409-11	CARBON	220	5%	1/4W
R1312	1-249-409-11	CARBON	220	5%	1/4W
R1313	1-249-417-11	CARBON	1K	5%	1/4W
R1314	1-249-417-11	CARBON	1K	5%	1/4W
R1315	1-249-425-11	CARBON	4.7K	5%	1/4W

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1317	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1320	1-249-405-11	CARBON	100	5%	1/4W	
R1321	1-249-405-11	CARBON	100	5%	1/4W	
R1322	1-249-405-11	CARBON	100	5%	1/4W	
R1323	1-249-405-11	CARBON	100	5%	1/4W	
R1324	1-249-405-11	CARBON	100	5%	1/4W	
R1325	1-249-405-11	CARBON	100	5%	1/4W	
R1326	1-249-433-11	CARBON	22K	5%	1/4W	
R1327	1-249-417-11	CARBON	1K	5%	1/4W	
R1328	1-249-405-11	CARBON	100	5%	1/4W	
R1329	1-249-405-11	CARBON	100	5%	1/4W	
R1330	1-249-405-11	CARBON	100	5%	1/4W	
R1331	1-249-417-11	CARBON	1K	5%	1/4W	
R1332	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1333	1-215-434-00	METAL	3.6K	1%	1/6W	
R1334	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1335	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1336	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1337	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1338	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1339	1-249-417-11	CARBON	1K	5%	1/4W	
R1340	1-249-417-11	CARBON	1K	5%	1/4W	
R1341	1-249-413-11	CARBON	470	5%	1/4W	
R1342	1-249-435-11	CARBON	33K	5%	1/4W	
R1343	1-249-433-11	CARBON	22K	5%	1/4W	
R1344	1-249-417-11	CARBON	1K	5%	1/4W	
R1345	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1346	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1348	1-249-434-11	CARBON	27K	5%	1/4W	
R1349	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1350	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1351	1-249-409-11	CARBON	220	5%	1/4W	
R1352	1-249-411-11	CARBON	330	5%	1/4W	
R1353	1-249-405-11	CARBON	100	5%	1/4W	
R1354	1-249-417-11	CARBON	1K	5%	1/4W	
R1355	1-249-417-11	CARBON	1K	5%	1/4W	
R1356	1-249-405-11	CARBON	100	5%	1/4W	
R1357	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1358	1-249-417-11	CARBON	1K	5%	1/4W	
R1359	1-249-429-11	CARBON	10K	5%	1/4W	
R1362	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1367	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1369	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1370	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1371	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1372	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1373	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1374	1-249-405-11	CARBON	100	5%	1/4W	

****

*A-1195-040-A P BOARD, COMPLETE (KV-27XBR55(U/C) ONLY)
****

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-560-125-00	PLUG, CONNECTOR (2.5MM PITCH)	
	*1-564-506-11	PLUG, CONNECTOR 3P	
	*1-564-507-11	PLUG, CONNECTOR 4P	
	*1-564-508-11	PLUG, CONNECTOR 5P	
	*1-564-509-11	PLUG, CONNECTOR 6P	
	*1-564-511-11	PLUG, CONNECTOR 8P	
	*1-564-513-11	PLUG, CONNECTOR 10P	
	*1-566-057-11	PIN, CONNECTOR 5P	
	*1-566-060-11	PIN, CONNECTOR 8P	
	*1-566-061-11	PIN, CONNECTOR 9P	
	*4-334-952-00	CASE (C), SHIELD	
	*4-341-751-01	EYELET (EY1,EY2)	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C3101	1-124-907-11	ELECT	10MF	20%	50V	
C3102	1-124-907-11	ELECT	10MF	20%	50V	
C3103	1-124-907-11	ELECT	10MF	20%	50V	
C3104	1-136-157-00	FILM	0.022MF	5%	50V	
C3105	1-126-233-11	ELECT	22MF	20%	25V	
C3106	1-126-233-11	ELECT	22MF	20%	25V	
C3201	1-124-907-11	ELECT	10MF	20%	50V	
C3202	1-124-907-11	ELECT	10MF	20%	50V	
C3203	1-124-119-00	ELECT	330MF	20%	16V	
C3204	1-124-478-11	ELECT	100MF	20%	25V	
C3205	1-124-119-00	ELECT	330MF	20%	16V	
C3206	1-124-472-11	ELECT	470MF	20%	10V	
C3207	1-126-233-11	ELECT	22MF	20%	50V	
C3208	1-124-478-11	ELECT	100MF	20%	25V	
C3209	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C3210	1-101-003-00	CERAMIC	0.0047MF		50V	
C3211	1-101-003-00	CERAMIC	0.0047MF		50V	
C3212	1-164-021-91	CERAMIC	12PF	5%	50V	
C3213	1-124-903-11	ELECT	1MF	20%	50V	
C3214	1-164-054-11	CERAMIC	22PF	5%	50V	
C3215	1-164-056-11	CERAMIC	27PF	5%	50V	
C3216	1-164-060-11	CERAMIC	39PF	5%	50V	
C3217	1-126-103-11	ELECT	470MF	20%	16V	
C3218	1-101-004-00	CERAMIC	0.01MF		50V	
C3219	1-101-002-00	CERAMIC	0.0022MF		50V	
C3220	1-164-070-11	CERAMIC	100PF	5%	50V	
C3221	1-164-062-11	CERAMIC	47PF	5%	50V	
C3222	1-164-062-11	CERAMIC	47PF	5%	50V	
C3223	1-124-477-11	ELECT	47MF	20%	16V	
C3224	1-124-478-11	ELECT	100MF	20%	25V	
C3225	1-124-478-11	ELECT	100MF	20%	25V	
C3226	1-124-902-00	ELECT	0.47MF	20%	50V	
C3227	1-124-477-11	ELECT	47MF	20%	16V	
C3228	1-124-927-11	ELECT	4.7MF	20%	50V	
C3230	1-164-072-11	CERAMIC	120PF	5%	50V	
C3231	1-102-978-00	CERAMIC	220PF	5%	50V	
C3235	1-126-101-11	ELECT	100MF	20%	16V	
C3801	1-124-477-11	ELECT	47MF	20%	16V	
C3802	1-124-477-11	ELECT	47MF	20%	16V	
C3803	1-124-477-11	ELECT	47MF	20%	16V	
C3804	1-124-477-11	ELECT	47MF	20%	16V	
C3805	1-164-068-11	CERAMIC	82PF	5%	50V	
C3806	1-102-976-00	CERAMIC	180PF	5%	50V	
C3807	1-136-163-00	FILM	0.068MF	5%	50V	
C3808	1-164-072-11	CERAMIC	120PF	5%	50V	
C3809	1-164-056-11	CERAMIC	27PF	5%	50V	
C3810	1-164-058-11	CERAMIC	33PF	5%	50V	
C3811	1-124-907-11	ELECT	10MF	20%	50V	
C3812	1-124-463-00	ELECT	0.1MF	20%	50V	
C3813	1-124-902-00	ELECT	0.47MF	20%	50V	
C3814	1-101-004-00	CERAMIC	0.01MF		50V	
C3815	1-101-004-00	CERAMIC	0.01MF		50V	
C3816	1-164-068-11	CERAMIC	82PF	5%	50V	
C3817	1-164-066-11	CERAMIC	68PF	5%	50V	
C3818	1-102-108-00	CERAMIC	150PF	10%	50V	
C3819	1-164-068-11	CERAMIC	82PF	5%	50V	
C3820	1-124-477-11	ELECT	47MF	20%	16V	
C3821	1-101-004-00	CERAMIC	0.01MF		50V	
C3822	1-164-048-11	CERAMIC	12PF	5%	50V	
C3823	1-164-054-11	CERAMIC	22PF	5%	50V	

Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité Ne les remplacer que par des pièces de numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3824	1-124-903-11	ELECT	1MF	20%	50V
C3825	1-136-153-00	FILM	0.01MF	5%	50V
C3826	1-101-004-00	CERAMIC	0.01MF		50V
C3827	1-124-907-11	ELECT	10MF	20%	50V
C3828	1-164-021-91	CERAMIC	12PF	5%	50V
C3829	1-101-001-00	CERAMIC	0.001MF		50V
C3830	1-136-172-00	FILM	0.39MF	5%	50V
C3831	1-136-172-00	FILM	0.39MF	5%	50V
C3832	1-136-172-00	FILM	0.39MF	5%	50V
C3833	1-164-021-91	CERAMIC	12PF	5%	50V
C3849	1-164-064-11	CERAMIC	56PF	5%	50V
C3852	1-124-477-11	ELECT	47MF	20%	16V
C3853	1-124-907-11	ELECT	10MF	20%	50V
C3855	1-136-161-00	FILM	0.047MF	5%	50V
C3856	1-124-907-11	ELECT	10MF	20%	50V
C3857	1-136-165-00	FILM	0.1MF	5%	50V
C3858	1-124-903-11	ELECT	1MF	20%	50V
C3862	1-130-475-00	MYLAR	0.0022MF	5%	50V
C3863	1-164-072-11	CERAMIC	120PF	5%	50V
C3864	1-124-903-11	ELECT	1MF	20%	50V
C3865	1-164-068-11	CERAMIC	82PF	5%	50V
C3866	1-124-907-11	ELECT	10MF	20%	50V
C3867	1-124-907-11	ELECT	10MF	20%	50V
C3872	1-124-902-00	ELECT	0.47MF	20%	50V
C3873	1-136-161-00	FILM	0.047MF	5%	50V
C3874	1-124-907-11	ELECT	10MF	20%	50V
C3875	1-101-004-00	CERAMIC	0.01MF		50V
C3876	1-164-070-11	CERAMIC	100PF	5%	50V
		<NETWORK>			
CP3201	1-236-493-11	NETWORK, RES, THICK FILM			
CP3202	1-236-490-11	NETWORK, RES, THICK FILM			
		<TRIMMER>			
CV3801	1-141-181-11	CAP,TRIMMER			
		<DIODE>			
D3201	8-719-110-78	DIODE RD33ES-B2			
D3203	8-719-200-02	DIODE 10E2			
D3205	8-719-119-97	DIODE RD3.6ES-L1			
D3207	8-719-911-19	DIODE 1SS119			
		<DELAY LINE>			
DL3801	1-415-240-00	DELAY LINE			
		<IC>			
IC3201	⚠8-759-142-04	IC UPC7893HF			
IC3202	8-759-512-50	IC MB88733-137			
IC3203	⚠8-759-924-12	IC LM7805CT			
IC3204	8-759-803-25	IC CXK1006L			
IC3205	8-759-140-53	IC UPD4053BC			
IC3801	8-752-006-12	IC CX20061			
IC3802	8-752-006-12	IC CX20061			
IC3803	8-752-033-32	IC CXA1228S			
IC3805	8-752-035-53	IC CXA1315P			
		<IF BLOCK>			
IF3201	1-464-755-21	IF BLOCK (IFE-450A)			

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<COIL>				
L3201	1-408-408-00	INDUCTOR	8.2UH			
L3202	1-408-421-00	INDUCTOR	100UH			
L3203	1-408-413-00	INDUCTOR	22UH			
L3204	1-408-409-00	INDUCTOR	10UH			
L3801	1-408-415-00	INDUCTOR	33UH			
L3802	1-408-412-00	INDUCTOR	18UH			
L3803	1-408-421-00	INDUCTOR	100UH			
L3804	1-408-421-00	INDUCTOR	100UH			
L3805	1-408-409-00	INDUCTOR	10UH			
L3806	1-408-421-00	INDUCTOR	100UH			
L3807	1-408-424-00	INDUCTOR	180UH			
L3808	1-408-424-00	INDUCTOR	180UH			
L3810	1-408-409-00	INDUCTOR	10UH			
L3811	1-408-409-00	INDUCTOR	10UH			
		<TRANSISTOR>				
Q3101	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3102	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3103	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3201	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3202	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3203	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3204	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3205	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3206	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3207	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3208	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3209	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3801	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3802	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3803	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3804	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3805	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3806	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3807	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3808	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3809	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3810	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3811	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3812	8-729-900-89	TRANSISTOR	DTC144ES			
Q3813	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3814	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3815	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3816	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3817	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3818	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3819	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3820	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3821	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3822	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3823	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3824	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3825	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3826	8-729-423-37	TRANSISTOR	2SC3311A-QRS			
Q3827	8-729-600-12	TRANSISTOR	2SK108-C			
Q3828	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
Q3829	8-729-423-44	TRANSISTOR	2SA1309A-QRS			
		<RESISTOR>				
R3101	1-249-405-11	CARBON	100	5%	1/4W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R3102	1-249-405-11	CARBON	100	5%	1/4W	
R3103	1-249-405-11	CARBON	100	5%	1/4W	
R3104	1-249-441-11	CARBON	100K	5%	1/4W	
R3105	1-249-405-11	CARBON	100	5%	1/4W	
R3106	1-249-441-11	CARBON	100K	5%	1/4W	
R3107	1-247-895-00	CARBON	470K	5%	1/4W	
R3108	1-249-441-11	CARBON	100K	5%	1/4W	
R3109	1-249-425-11	CARBON	4.7K	5%	1/4W	
R3110	1-249-405-11	CARBON	100	5%	1/4W	
R3111	1-249-425-11	CARBON	4.7K	5%	1/4W	
R3112	1-249-405-11	CARBON	100	5%	1/4W	
R3113	1-249-405-11	CARBON	100	5%	1/4W	
R3114	1-249-441-11	CARBON	100K	5%	1/4W	
R3115	1-249-425-11	CARBON	4.7K	5%	1/4W	
R3116	1-249-441-11	CARBON	100K	5%	1/4W	
R3117	1-249-441-11	CARBON	100K	5%	1/4W	
R3118	1-249-441-11	CARBON	100K	5%	1/4W	
R3119	1-247-895-00	CARBON	470K	5%	1/4W	
R3120	1-249-405-11	CARBON	100	5%	1/4W	
R3121	1-249-423-11	CARBON	3.3K	5%	1/4W	
R3122	1-249-432-11	CARBON	18K	5%	1/4W	
R3123	1-249-405-11	CARBON	100	5%	1/4W	
R3124	1-249-405-11	CARBON	100	5%	1/4W	
R3200	1-249-416-11	CARBON	820	5%	1/4W	
R3201	1-249-417-11	CARBON	1K	5%	1/4W	
R3202	⚠1-215-884-91	METAL OXIDE	47	5%	2W	F
R3203	1-249-426-11	CARBON	5.6K	5%	1/4W	
R3204	⚠1-215-884-91	METAL OXIDE	47	5%	2W	F
R3206	1-215-458-00	METAL	36K	1%	1/6W	
R3207	1-249-433-11	CARBON	22K	5%	1/4W	
R3208	1-249-433-11	CARBON	22K	5%	1/4W	
R3209	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3211	1-249-411-11	CARBON	330	5%	1/4W	
R3212	1-249-409-11	CARBON	220	5%	1/4W	
R3213	1-249-409-11	CARBON	220	5%	1/4W	
R3214	1-249-417-11	CARBON	1K	5%	1/4W	
R3215	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3216	1-249-420-11	CARBON	1.8K	5%	1/4W	
R3217	1-215-896-00	METAL OXIDE	4.7K	5%	2W	F
R3218	1-249-417-11	CARBON	1K	5%	1/4W	
R3219	1-249-429-11	CARBON	10K	5%	1/4W	
R3220	1-249-429-11	CARBON	10K	5%	1/4W	
R3221	1-249-440-11	CARBON	82K	5%	1/4W	
R3222	1-247-891-00	CARBON	330K	5%	1/4W	
R3223	1-249-429-11	CARBON	10K	5%	1/4W	
R3224	1-249-417-11	CARBON	1K	5%	1/4W	
R3225	1-249-417-11	CARBON	1K	5%	1/4W	
R3226	1-249-417-11	CARBON	1K	5%	1/4W	
R3227	1-249-409-11	CARBON	220	5%	1/4W	
R3228	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3229	1-249-409-11	CARBON	220	5%	1/4W	
R3230	1-249-409-11	CARBON	220	5%	1/4W	
R3231	1-249-429-11	CARBON	10K	5%	1/4W	
R3232	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3233	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3234	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3235	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3236	1-249-429-11	CARBON	10K	5%	1/4W	
R3237	1-249-417-11	CARBON	1K	5%	1/4W	
R3238	1-249-429-11	CARBON	10K	5%	1/4W	
R3239	⚠1-216-446-91	METAL OXIDE	18	5%	2W	F
R3240	⚠1-216-446-91	METAL OXIDE	18	5%	2W	F
R3241	⚠1-216-447-91	METAL OXIDE	27	5%	2W	F
R3242	1-249-429-11	CARBON	10K	5%	1/4W	
R3243	1-249-425-11	CARBON	4.7K	5%	1/4W	
R3244	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3245	1-249-425-11	CARBON	4.7K	5%	1/4W	
R3246	1-249-433-11	CARBON	22K	5%	1/4W	
R3247	1-249-414-11	CARBON	560	5%	1/4W	
R3248	1-249-416-11	CARBON	820	5%	1/4W	
R3249	1-249-393-11	CARBON	10	5%	1/4W	
R3251	1-249-417-11	CARBON	1K	5%	1/4W	
R3253	1-249-417-11	CARBON	1K	5%	1/4W	
R3254	1-249-424-11	CARBON	3.9K	5%	1/4W	
R3255	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3256	1-249-409-11	CARBON	220	5%	1/4W	
R3257	1-249-409-11	CARBON	220	5%	1/4W	
R3258	1-249-441-11	CARBON	100K	5%	1/4W	
R3260	1-249-416-11	CARBON	820	5%	1/4W	
R3261	1-249-414-11	CARBON	560	5%	1/4W	
R3262	1-249-414-11	CARBON	560	5%	1/4W	
R3263	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3264	1-249-414-11	CARBON	560	5%	1/4W	
R3265	1-249-418-11	CARBON	1.2K	5%	1/4W	
R3266	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3267	1-249-409-11	CARBON	220	5%	1/4W	
R3268	1-249-411-11	CARBON	330	5%	1/4W	
R3269	1-247-901-11	CARBON	820K	5%	1/4W	
R3270	1-249-405-11	CARBON	100	5%	1/4W	
R3271	1-249-417-11	CARBON	1K	5%	1/4W	
R3272	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3273	1-249-417-11	CARBON	1K	5%	1/4W	
R3274	1-249-405-11	CARBON	100	5%	1/4W	
R3275	1-249-417-11	CARBON	1K	5%	1/4W	
R3276	1-249-417-11	CARBON	1K	5%	1/4W	
R3277	1-249-425-11	CARBON	4.7K	5%	1/4W	
R3278	1-249-429-11	CARBON	10K	5%	1/4W	
R3279	1-249-428-11	CARBON	8.2K	5%	1/4W	
R3280	1-249-437-11	CARBON	47K	5%	1/4W	
R3281	⚠1-216-450-91	METAL OXIDE	82	5%	2W	F
R3282	1-249-424-11	CARBON	3.9K	5%	1/4W	
R3283	1-249-417-11	CARBON	1K	5%	1/4W	
R3284	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3286	1-249-417-11	CARBON	1K	5%	1/4W	
R3287	1-215-421-00	METAL	1K	1%	1/6W	
R3288	1-249-417-11	CARBON	1K	5%	1/4W	
R3289	1-249-414-11	CARBON	560	5%	1/4W	
R3290	1-249-427-11	CARBON	6.8K	5%	1/4W	
R3293	1-249-429-11	CARBON	10K	5%	1/4W	
R3294	1-249-437-11	CARBON	47K	5%	1/4W	
R3295	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3296	1-249-424-11	CARBON	3.9K	5%	1/4W	
R3297	1-249-415-11	CARBON	680	5%	1/4W	
R3800	1-259-884-11	CARBON	4.7M	5%	1/4W	
R3801	1-259-880-11	CARBON	2.2M	5%	1/4W	
R3802	1-249-429-11	CARBON	10K	5%	1/4W	
R3803	1-249-429-11	CARBON	10K	5%	1/4W	
R3804	1-249-429-11	CARBON	10K	5%	1/4W	
R3805	1-249-441-11	CARBON	100K	5%	1/4W	
R3807	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3808	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3809	1-249-417-11	CARBON	1K	5%	1/4W	
R3810	1-249-420-11	CARBON	1.8K	5%	1/4W	
R3811	1-249-414-11	CARBON	560	5%	1/4W	
R3812	1-249-420-11	CARBON	1.8K	5%	1/4W	

P **F1**

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Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R3813	1-249-417-11	CARBON	1K	5%	1/4W	
R3814	1-249-417-11	CARBON	1K	5%	1/4W	
R3815	1-247-899-11	CARBON	680K	5%	1/4W	
R3816	1-247-887-00	CARBON	220K	5%	1/4W	
R3817	1-249-423-11	CARBON	3.3K	5%	1/4W	
R3818	1-249-423-11	CARBON	3.3K	5%	1/4W	
R3819	1-249-435-11	CARBON	33K	5%	1/4W	
R3820	1-249-417-11	CARBON	1K	5%	1/4W	
R3821	1-249-429-11	CARBON	10K	5%	1/4W	
R3822	1-249-417-11	CARBON	1K	5%	1/4W	
R3823	1-249-417-11	CARBON	1K	5%	1/4W	
R3824	1-249-413-11	CARBON	470	5%	1/4W	
R3825	1-249-417-11	CARBON	1K	5%	1/4W	
R3827	1-249-409-11	CARBON	220	5%	1/4W	
R3828	1-249-405-11	CARBON	100	5%	1/4W	
R3830	1-249-433-11	CARBON	22K	5%	1/4W	
R3831	1-249-431-11	CARBON	15K	5%	1/4W	
R3832	1-249-431-11	CARBON	15K	5%	1/4W	
R3833	1-249-428-11	CARBON	8.2K	5%	1/4W	
R3834	1-249-426-11	CARBON	5.6K	5%	1/4W	
R3835	1-249-431-11	CARBON	15K	5%	1/4W	
R3836	1-249-413-11	CARBON	470	5%	1/4W	
R3837	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3838	1-249-425-11	CARBON	4.7K	5%	1/4W	
R3839	1-249-417-11	CARBON	1K	5%	1/4W	
R3840	1-249-420-11	CARBON	1.8K	5%	1/4W	
R3841	1-249-415-11	CARBON	680	5%	1/4W	
R3842	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3843	1-249-425-11	CARBON	4.7K	5%	1/4W	
R3844	1-249-411-11	CARBON	330	5%	1/4W	
R3845	1-249-425-11	CARBON	4.7K	5%	1/4W	
R3847	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3848	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3849	1-249-429-11	CARBON	10K	5%	1/4W	
R3850	1-249-424-11	CARBON	3.9K	5%	1/4W	
R3851	1-249-418-11	CARBON	1.2K	5%	1/4W	
R3852	1-249-416-11	CARBON	820	5%	1/4W	
R3853	1-249-420-11	CARBON	1.8K	5%	1/4W	
R3854	1-249-422-11	CARBON	2.7K	5%	1/4W	
R3855	1-249-424-11	CARBON	3.9K	5%	1/4W	
R3856	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3857	1-249-423-11	CARBON	3.3K	5%	1/4W	
R3858	1-249-424-11	CARBON	3.9K	5%	1/4W	
R3859	1-249-424-11	CARBON	3.9K	5%	1/4W	
R3860	1-249-422-11	CARBON	2.7K	5%	1/4W	
R3861	1-249-422-11	CARBON	2.7K	5%	1/4W	
R3862	1-249-417-11	CARBON	1K	5%	1/4W	
R3863	1-249-418-11	CARBON	1.2K	5%	1/4W	
R3864	1-249-427-11	CARBON	6.8K	5%	1/4W	
R3865	1-249-436-11	CARBON	39K	5%	1/4W	
R3866	1-249-422-11	CARBON	2.7K	5%	1/4W	
R3872	1-249-435-11	CARBON	33K	5%	1/4W	
R3873	1-249-429-11	CARBON	10K	5%	1/4W	
R3874	1-249-424-11	CARBON	3.9K	5%	1/4W	
R3875	1-249-429-11	CARBON	10K	5%	1/4W	
R3876	1-249-439-11	CARBON	68K	5%	1/4W	
R3877	1-249-417-11	CARBON	1K	5%	1/4W	
R3878	1-249-433-11	CARBON	22K	5%	1/4W	
R3891	1-247-889-00	CARBON	270K	5%	1/4W	
R3894	1-249-409-11	CARBON	220	5%	1/4W	
R3895	1-249-409-11	CARBON	220	5%	1/4W	
R3896	1-249-425-11	CARBON	4.7K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<VARIABLE RESISTOR>				
RV3101	1-238-016-11	RES, ADJ, CARBON 10K				
RV3801	1-238-015-11	RES, ADJ, CARBON 4.7K				
RV3802	1-228-995-00	RES, ADJ, CARBON 22K				
RV3804	1-238-017-11	RES, ADJ, CARBON 22K				
RV3805	1-228-989-00	RES, ADJ, CARBON 470				
RV3806	1-228-989-00	RES, ADJ, CARBON 470				
		<TUNER>				
TU3201⚠	1-463-771-11	TUNER, ET (BTP-201A)				
		<CRYSTAL>				
X3201	1-567-192-11	OSCILLATOR, CERAMIC				
X3801	1-567-505-11	OSCILLATOR, CRYSTAL				
**						
	*1-638-668-11	F1 BOARD ********				
	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)				
	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P				
	*1-564-508-11	PLUG, CONNECTOR 5P				
	*1-564-511-11	PLUG, CONNECTOR 8P				
		<CAPACITOR>				
C2601	1-136-165-00	FILM	0.1MF	5%	50V	
C2602⚠	1-102-125-91	CERAMIC	0.0047MF	10%	50V	
C2603⚠	1-102-125-91	CERAMIC	0.0047MF	10%	50V	
C2604	1-124-480-11	ELECT	470MF	20%	25V	
C2605	1-124-480-11	ELECT	470MF	20%	25V	
C2606	1-124-478-11	ELECT	100MF	20%	25V	
C2608	1-101-005-00	CERAMIC	0.022MF		50V	
C2609	1-136-165-00	FILM	0.1MF	5%	50V	
C2610	1-101-005-00	CERAMIC	0.022MF		50V	
C2611	1-101-006-00	CERAMIC	0.047MF		50V	
C2612	1-102-129-00	CERAMIC	0.01MF	10%	50V	
C2613	1-124-477-11	ELECT	47MF	20%	16V	
		<DIODE>				
D2601	8-719-911-19	DIODE 1SS119				
D2602⚠	8-719-521-10	DIODE S1VB10-S				
		<IC>				
IC2601	8-759-112-06	IC UPC78N05H				
		<TRANSISTOR>				
Q2601	8-729-423-37	TRANSISTOR 2SC3311A-QRS				
Q2602	8-729-423-37	TRANSISTOR 2SC3311A-QRS				
		<RESISTOR>				
R2601	1-249-440-11	CARBON	82K	5%	1/4W	
R2602	1-215-882-00	METAL OXIDE	22	5%	2W	F
R2603	1-216-425-11	METAL OXIDE	56	5%	1W	F
R2604	1-249-443-11	CARBON	0.47	5%	1/4W	F
R2605	1-249-429-11	CARBON	10K	5%	1/4W	
R2606	1-249-423-11	CARBON	3.3K	5%	1/4W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R2607	1-249-434-11	CARBON 27K 5% 1/4W	
R2608	1-249-441-11	CARBON 100K 5% 1/4W	
R2609	1-249-435-11	CARBON 33K 5% 1/4W	
R2610	1-249-429-11	CARBON 10K 5% 1/4W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1245-527-A	F BOARD, COMPLETE *****************	
	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
	1-533-190-11	FUSE CLIP	
	*1-533-189-11	HOLDER, FUSE	
	*1-559-991-21	CONNECTOR ASSY 1P	
	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
	*1-564-505-11	PLUG, CONNECTOR 2P	
	*1-564-506-11	PLUG, CONNECTOR 3P	
	*1-564-508-11	PLUG, CONNECTOR 5P	
	*1-565-514-11	SOCKET, CONNECTOR 2P	
	*1-568-378-21	PIN, CONNECTOR 3P	
	*1-580-843-11	PIN, CONNECTOR (POWER)	
	*4-341-751-01	EYELET (EY8,EY9,EY10,EY11,EY12,EY13, EY14,EY15,EY16,EY17,EY18,EY19,EY20,EY21, EY22,EY23,EY24,EY25,EY26,EY27)	
	*4-341-752-01	EYELET (EY1,EY2,EY3,EY4,EY5,EY6,EY7, EY28,EY29,EY30,EY31,EY32,EY33,EY34,EY35, EY36,EY37,EY38)	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C601	⚠ 1-136-311-51	FILM 0.47MF 20% 125V	
C603	1-106-224-00	MYLAR 0.15MF 10% 100V	
C604	1-101-821-00	CERAMIC 0.0022MF 500V	
C605	⚠ 1-162-576-51	CERAMIC 0.001MF 10% 400V	
C606	⚠ 1-161-953-52	CERAMIC 0.0047MF 20% 400V	
C607	1-162-599-12	CERAMIC 0.0047MF 20% 400V	
C610	1-124-477-11	ELECT 47MF 20% 16V	
C611	1-124-122-11	ELECT 100MF 20% 25V	
C613	1-124-122-11	ELECT 100MF 20% 25V	
C616	⚠ 1-136-311-51	FILM 0.47MF 20% 125V	
C617	1-101-821-00	CERAMIC 0.0022MF 500V	
C618	1-124-477-11	ELECT 47MF 20% 16V	
C622	1-125-538-11	ELECT(BLOCK) 1000MF 20% 200V	
C650	1-161-830-00	CERAMIC 0.0047MF 500V	
C651	1-124-799-11	ELECT 2.2MF 20% 160V	
C652	⚠ 1-124-122-91	ELECT 100MF 20% 50V	
C653	1-102-244-00	CERAMIC 220PF 10% 500V	
C654	1-124-126-00	ELECT 47MF 20% 25V	
C655	1-136-173-00	FILM 0.47MF 5% 50V	
C656	1-106-383-00	MYLAR 0.047MF 10% 100V	
C657	1-136-601-11	FILM 0.01MF 10% 630V	
C658	1-162-114-00	CERAMIC 0.0047MF 2KV	
C660	1-162-599-12	CERAMIC 0.0047MF 20% 400V	
C661	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C663	1-124-618-11	ELECT 2200MF 20% 35V	
C664	1-126-588-11	ELECT 1000MF 20% 16V	
C665	1-124-602-00	ELECT 2200MF 20% 25V	
C666	1-125-564-11	ELECT(BLOCK) 1000MF 20% 160V	
C667	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C668	1-162-116-00	CERAMIC 680PF 10% 2KV	
C672	1-124-122-11	ELECT 100MF 20% 25V	
C673	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C674	1-124-126-00	ELECT 47MF 20% 16V	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D601	⚠ 8-719-305-07	DIODE RBV-406H	
D602	8-719-911-55	DIODE U05G	
D603	8-719-911-55	DIODE U05G	
D604	8-719-911-19	DIODE 1SS119	
D605	8-719-911-55	DIODE U05G	
D607	8-719-911-19	DIODE 1SS119	
D651	8-719-911-19	DIODE 1SS119	
D652	8-719-300-33	DIODE RU-3AM	
D653	8-719-311-31	DIODE RU-1P	
D657	8-719-500-67	DIODE D5KC20H	
D658	8-719-301-45	DIODE RK14	
D659	8-719-500-41	DIODE D8LCA20	
D660	8-719-301-64	DIODE RU-4DS	

<FUSE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
F601	⚠ 1-532-748-11	FUSE, GLASS TUBE 6.3A/125V	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB655	1-410-397-21	FERRITE BEAD INDUCTOR	
FB658	1-410-396-41	FERRITE BEAD INDUCTOR	
FB659	1-410-397-21	FERRITE BEAD INDUCTOR	
FB660	1-410-396-41	FERRITE BEAD INDUCTOR	
FB662	1-410-397-21	FERRITE BEAD INDUCTOR	
FB663	1-410-397-21	FERRITE BEAD INDUCTOR	
FB664	1-410-397-21	FERRITE BEAD INDUCTOR	
L601	1-459-104-00	COIL, DUST CORE	
L657	1-459-155-00	COIL (WITH CORE) 45UH	
L658	1-459-155-00	COIL (WITH CORE) 45UH	
L659	1-459-407-00	COIL, FERRITE CHOKE	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC651	⚠ 8-749-920-81	IC STR-S6301A	
	*4-363-404-00	HOLDER, IC; IC651	
	4-393-406-01	SHEET (R), RADIATION; IC651	
IC652	8-719-156-73	DIODE PS2501-1LB	
IC653	⚠ 8-749-920-62	IC SE-135NS	
IC654	⚠ 8-749-920-61	IC SE-135N	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q602	8-729-140-96	TRANSISTOR 2SD774-34	
Q603	8-729-200-17	TRANSISTOR 2SA1091-O	
Q604	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q651	⚠ 8-729-177-43	TRANSISTOR 2SD774-4	
Q652	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q653	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q654	8-729-423-44	TRANSISTOR 2SA1309A-QRS	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
R601	⚠ 1-202-723-51	SOLID 2.2M 10% 1/2W	
R602	⚠ 1-205-985-21	WIREWOUND 1.5 5% 20W	F
R603	1-215-885-00	METAL OXIDE 68 5% 2W	F
R605	⚠ 1-202-723-51	SOLID 2.2M 10% 1/2W	
R606	1-215-885-00	METAL OXIDE 68 5% 2W	F
R607	1-249-426-11	CARBON 5.6K 5% 1/4W	
R608	1-247-887-00	CARBON 220K 5% 1/4W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R609	1-249-417-11	CARBON	1K	5%	1/4W	
R609	1-249-421-11	CARBON	2.2K	5%	1/4W	
R610	1-249-417-11	CARBON	1K	5%	1/4W	
R611	1-207-645-00	WIREWOUND	0.47	10%	3W	F
R612	1-249-417-11	CARBON	1K	5%	1/4W	F
R613	1-249-441-11	CARBON	100K	5%	1/4W	
R614	1-249-429-11	CARBON	10K	5%	1/4W	
R615	1-247-895-00	CARBON	470K	5%	1/4W	
R616	1-249-417-11	CARBON	1K	5%	1/4W	
R617	1-249-414-11	CARBON	560	5%	1/4W	
R619	⚠ 1-216-341-51	METAL OXIDE	0.22	5%	1W	F
R620	1-216-444-11	METAL OXIDE	82K	5%	1W	F
R621	1-249-429-11	CARBON	10K	5%	1/4W	
R622	1-249-423-11	CARBON	3.3K	5%	1/4W	
R623	1-216-457-00	METAL OXIDE	1.2K	5%	2W	F
R624	1-216-458-11	METAL OXIDE	1.8K	5%	2W	F
R651	1-207-612-00	WIREWOUND	0.1	10%	2W	F
R652	1-207-612-00	WIREWOUND	0.1	10%	2W	F
R653	1-215-893-11	METAL OXIDE	1.5K	5%	2W	F
R654	1-205-945-11	WIREWOUND	33	10%	7W	F
R655	1-202-843-11	SOLID	270K	10%	1/2W	
R660	⚠ 1-249-414-51	CARBON	560	5%	1/4W	F
R661	1-249-413-11	CARBON	470	5%	1/4W	
R662	1-249-467-11	CARBON	68K	5%	1/4W	F
R663	⚠ 1-247-706-91	CARBON	330	5%	1/4W	F
R664	1-249-425-11	CARBON	4.7K	5%	1/4W	
R665	1-249-417-11	CARBON	1K	5%	1/4W	
R666	1-249-425-11	CARBON	4.7K	5%	1/4W	
R667	1-249-417-11	CARBON	1K	5%	1/4W	
R668	1-249-429-11	CARBON	10K	5%	1/4W	
R669	1-249-417-11	CARBON	1K	5%	1/4W	
R670	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R671	1-202-730-00	SOLID	8.2M	10%	1/2W	
R672	1-249-455-11	CARBON	4.7	5%	1/4W	F
R675	1-215-881-11	METAL OXIDE	15	5%	2W	F
R676	1-216-446-00	METAL OXIDE	18	5%	2W	F
R690	1-205-945-11	WIREWOUND	33	10%	7W	F
R691	1-216-468-11	METAL OXIDE	82K	5%	2W	F
R692	1-216-468-11	METAL OXIDE	82K	5%	2W	F
R693	1-216-468-11	METAL OXIDE	82K	5%	2W	F
R694	1-216-468-11	METAL OXIDE	82K	5%	2W	F
R695	1-216-468-11	METAL OXIDE	82K	5%	2W	F
R696	1-207-682-00	WIREWOUND	47	10%	5W	F

<RELAY>

REF.NO.	PART NO.	DESCRIPTION
RY601	⚠ 1-515-684-22	RELAY

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION
T601	⚠ 1-424-220-21	TRANSFORMER, LINE FILTER
T602	⚠ 1-424-205-21	TRANSFORMER, LINE FILTER
T603	⚠ 1-448-916-11	TRANSFORMER, POWER
T651	⚠ 1-449-607-11	TRANSFORMER

<THERMISTOR>

REF.NO.	PART NO.	DESCRIPTION
THP601	⚠ 1-808-081-23	THERMISTOR, POSITIVE

****

*A-1296-830-A A BOARD, COMPLETE
****

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)	
	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
	*1-564-505-11	PLUG, CONNECTOR 2P	
	*1-564-507-11	PLUG, CONNECTOR 4P	
	*1-564-508-11	PLUG, CONNECTOR 5P	
	*1-564-509-11	PLUG, CONNECTOR 6P	
	*1-564-511-11	PLUG, CONNECTOR 8P	
	*1-564-512-11	PLUG, CONNECTOR 9P	
	*1-564-513-11	PLUG, CONNECTOR 10P	
	*1-565-509-11	CONNECTOR, BOARD TO BOARD 18P	
	*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P	
	*1-568-536-11	PLUG (MINIATURE DY) 6P	
	*4-341-751-01	EYELET (EY6,EY7,EY8,EY9,EY10,EY11,EY12, EY13,EY14,EY15,EY16,EY17,EY19,EY30,EY31, EY32)	
	*4-341-752-01	EYELET (EY1,EY2,EY3,EY4,EY5,EY20,EY21, EY22,EY23,EY24,EY25,EY26,EY27,EY28,EY29)	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C101	1-124-261-00	ELECT	10MF	20%	50V	
C102	1-126-233-11	ELECT	22MF	20%	25V	
C103	1-124-360-00	ELECT	1000MF	20%	16V	
C104	1-124-473-11	ELECT	1000MF	20%	10V	
C105	1-101-006-00	CERAMIC	0.047MF		50V	
C106	1-101-006-00	CERAMIC	0.047MF		50V	
C107	1-119-160-00	ELECT	470MF		10V	
C108	1-124-907-11	ELECT	10MF	20%	50V	
C109	1-164-070-11	CERAMIC	100PF	5%	50V	
C110	1-101-006-00	CERAMIC	0.047MF		50V	
C111	1-102-978-00	CERAMIC	220PF	5%	50V	
C112	1-136-161-00	FILM	0.047MF	5%	50V	
C113	1-124-903-11	ELECT	1MF	20%	50V	
C114	1-102-978-00	CERAMIC	220PF	5%	50V	
C115	1-102-978-00	CERAMIC	220PF	5%	50V	
C116	1-164-070-11	CERAMIC	100PF	5%	50V	
C117	1-164-054-11	CERAMIC	22PF	5%	50V	
C118	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C119	1-124-907-11	ELECT	10MF	20%	50V	
C120	1-124-360-00	ELECT	1000MF	20%	16V	
C121	1-136-165-00	FILM	0.1MF	5%	50V	
C124	1-130-728-00	FILM	0.0022MF	5%	50V	
C125	1-124-925-11	ELECT	2.2MF	20%	50V	
C126	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C129	1-136-173-00	FILM	0.47MF	5%	50V	
C199	1-124-477-11	ELECT	47MF	20%	16V	
C201	1-124-478-11	ELECT	100MF	20%	25V	
C202	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C203	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C301	1-126-103-11	ELECT	470MF	20%	16V	
C302	1-124-234-00	ELECT	22MF	20%	16V	
C303	1-136-153-00	FILM	0.01MF	5%	50V	
C304	1-124-903-11	ELECT	1MF	20%	50V	
C305	1-124-902-00	ELECT	0.47MF	20%	50V	
C306	1-124-234-00	ELECT	22MF	20%	16V	
C307	1-102-978-00	CERAMIC	220PF	5%	50V	
C308	1-164-033-11	CERAMIC	39PF	5%	50V	
C309	1-136-165-00	FILM	0.1MF	5%	50V	
C310	1-136-165-00	FILM	0.1MF	5%	50V	
C311	1-136-165-00	FILM	0.1MF	5%	50V	
C312	1-136-169-00	FILM	0.22MF	5%	50V	
C313	1-124-903-11	ELECT	1MF	20%	50V	
C314	1-101-006-00	CERAMIC	0.047MF		50V	
C315	1-136-158-00	FILM	0.027MF	5%	50V	
C316	1-164-070-11	CERAMIC	100PF	5%	50V	
C317	1-136-169-00	FILM	0.22MF	5%	50V	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C318	1-136-169-00	FILM	0.22MF	5%	50V
C319	1-102-980-00	CERAMIC	270PF	5%	50V
C320	1-124-499-11	ELECT	1MF	20%	50V
C321	1-136-153-00	FILM	0.01MF	5%	50V
C322	1-124-903-11	ELECT	1MF	20%	50V
C324	1-102-114-00	CERAMIC	470PF	10%	50V
C325	1-102-114-00	CERAMIC	470PF	10%	50V
C326	1-124-903-11	ELECT	1MF	20%	50V
C327	1-130-479-00	MYLAR	0.0047MF	5%	50V
C328	1-124-907-11	ELECT	10MF	20%	50V
C329	1-124-799-11	ELECT	2.2MF	20%	160V
C330	1-119-507-11	ELECT	220MF		16V
C331	1-102-112-00	CERAMIC	330PF	10%	50V
C332	1-136-165-00	FILM	0.1MF	5%	50V
C333	1-124-903-11	ELECT	1MF	20%	50V
C334	1-136-161-00	FILM	0.047MF	5%	50V
C335	1-130-471-00	MYLAR	0.001MF	5%	50V
C338	1-124-927-11	ELECT	4.7MF	20%	50V
C339	1-124-907-11	ELECT	10MF	20%	50V
C340	1-124-902-00	ELECT	0.47MF	20%	50V
C342	1-161-377-00	CERAMIC	0.0047MF	30%	50V
C344	1-126-176-11	ELECT	220MF	20%	10V
C351	1-136-169-00	FILM	0.22MF	5%	50V
C352	1-136-165-00	FILM	0.1MF	5%	50V
C353	1-124-902-00	ELECT	0.47MF	20%	50V
C500	1-130-479-00	MYLAR	0.0047MF	5%	50V
C501	1-124-122-11	ELECT	100MF	20%	50V
C502	⚠ 1-124-557-95	ELECT	1000MF	20%	25V
C503	1-124-477-11	ELECT	47MF	20%	25V
C504	1-106-216-00	MYLAR	0.068MF	10%	100V
C505	1-136-169-00	FILM	0.22MF	5%	50V
C508	1-136-161-00	FILM	0.047MF	5%	50V
C509	1-106-387-00	MYLAR	0.068MF	10%	200V
C510	1-102-228-00	CERAMIC	470PF	10%	500V
C511	1-123-024-21	ELECT	33MF		160V
C512	1-124-046-00	ELECT	10MF	20%	160V
C513	1-124-477-11	ELECT	47MF	20%	25V
C514	1-124-557-11	ELECT	1000MF	20%	25V
C515	1-162-114-00	CERAMIC	0.0047MF		2KV
C516	1-162-116-00	CERAMIC	680PF	10%	2KV
C517	1-162-116-00	CERAMIC	680PF	10%	2KV
C518	1-106-359-00	MYLAR	0.0047MF	10%	200V
C519	⚠ 1-136-897-11	FILM	0.021MF	3%	2KV
C520	1-162-116-00	CERAMIC	680PF	10%	2KV
C521	1-161-754-00	CERAMIC	0.001MF	10%	2KV
C522	⚠ 1-136-896-51	FILM	0.091MF	5%	630V
C523	1-102-244-00	CERAMIC	220PF	10%	500V
C524	1-106-383-00	MYLAR	0.047MF		200V
C525	1-124-902-00	ELECT	0.47MF	20%	50V
C526	1-102-244-00	CERAMIC	220PF	10%	500V
C527	1-162-318-11	CERAMIC	0.001MF	10%	500V
C528	1-102-030-00	CERAMIC	330PF	10%	500V
C529	1-136-109-00	FILM	0.68MF	5%	200V
C530	1-123-947-00	ELECT	10MF	20%	250V
C531	1-130-475-00	MYLAR	0.0022MF	5%	50V
C532	1-130-475-00	MYLAR	0.0022MF	5%	50V
C533	1-130-471-00	MYLAR	0.001MF	5%	50V
C534	1-124-477-11	ELECT	47MF	20%	25V
C535	1-123-948-00	ELECT	22MF	20%	250V
C536	1-136-559-11	FILM	0.0047MF	10%	630V
C537	1-124-927-11	ELECT	4.7MF	20%	50V
C541	1-106-383-00	MYLAR	0.047MF		200V
C543	1-136-828-11	FILM	1.8MF	5%	200V
C544	1-106-343-00	MYLAR	0.001MF	10%	100V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C545	1-124-910-11	ELECT	47MF	20%	50V
C546	1-102-228-00	CERAMIC	470PF	10%	500V
C548	1-124-927-11	ELECT	4.7MF	20%	50V
C549	1-124-477-11	ELECT	47MF	20%	25V
C550	1-136-111-00	FILM	1MF	5%	200V
C551	1-124-927-11	ELECT	4.7MF	20%	50V
C552	1-102-228-00	CERAMIC	470PF	10%	500V
C553	1-124-907-11	ELECT	10MF	20%	50V
C554	1-164-075-11	CERAMIC	150PF	10%	50V
C555	1-124-907-11	ELECT	10MF	20%	50V
C556	⚠ 1-123-932-91	ELECT	4.7MF	20%	160V
C557	1-102-114-00	CERAMIC	470PF	10%	50V
C558	1-136-161-00	FILM	0.047MF	5%	50V
C559	1-136-165-00	FILM	0.1MF	5%	50V
C581	1-124-478-11	ELECT	100MF	20%	25V
C582	1-124-478-11	ELECT	100MF	20%	25V
C583	1-124-478-11	ELECT	100MF	20%	25V
C584	1-124-478-11	ELECT	100MF	20%	25V
C585	1-124-478-11	ELECT	100MF	20%	25V
C586	1-124-478-11	ELECT	100MF	20%	25V
C1701	1-102-976-00	CERAMIC	180PF	5%	50V
C1702	1-164-070-11	CERAMIC	100PF	5%	50V
C1703	1-124-477-11	ELECT	47MF	20%	16V
C1704	1-102-121-00	CERAMIC	0.0022MF	10%	50V

<COMPOSITION CIRCUIT BLOCK>

CP101	1-231-682-00	COMPOSITION CIRCUIT BLOCK
CP102	1-236-301-11	NETWORK, C
CP103	1-236-491-11	NETWORK, RES, THICK FILM
CP104	1-232-682-11	COMPOSITION CIRCUIT BLOCK
CP105	1-236-479-11	NETWORK, C
CP106	1-236-479-11	NETWORK, C
CP108	1-236-358-21	NETWORK, RES
CP109	1-236-358-21	NETWORK, RES
CP110	1-236-294-11	NETWORK, RES
CP111	1-232-680-11	COMPOSITION CIRCUIT BLOCK

<DIODE>

D101	8-719-110-78	DIODE RD33ES-B3
D102	8-719-911-19	DIODE 1SS119
D104	8-719-911-19	DIODE 1SS119
D105	8-719-974-81	DIODE 1SV113
D112	8-719-911-19	DIODE 1SS119
D114	8-719-911-19	DIODE 1SS119
D301	8-719-110-48	DIODE RD18ES-B1
D302	8-719-109-89	DIODE RD5.6ES-B2
D303	8-719-109-84	DIODE RD5.1ES-B1
D304	8-719-109-96	DIODE RD6.8ES-B1
D307	8-719-911-19	DIODE 1SS119
D308	8-719-911-19	DIODE 1SS119
D310	8-719-911-19	DIODE 1SS119
D311	8-719-110-48	DIODE RD18ES-B1
D350	8-719-109-89	DIODE RD5.6ES-B2
D500	8-719-911-55	DIODE U05G
D501	8-719-300-33	DIODE RU-3AM
D502	8-719-902-85	DIODE RG3G-5007L
D503	8-719-979-85	DIODE EGP20G
D504	8-719-500-26	DIODE D5KD20H
D505	8-719-976-64	DIODE RGP02-17
D506	8-719-911-19	DIODE 1SS119
D507	8-719-300-33	DIODE RU-3AM
D508	8-719-911-19	DIODE 1SS119

Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D509	8-719-911-19	DIODE 1SS119	
D511	8-719-902-85	DIODE RG3G-5007L	
D512	8-719-311-87	DIODE FMS-3FU	
	*4-393-401-01	SPRING; D512	
D513	8-719-911-19	DIODE 1SS119	
D514	8-719-911-19	DIODE 1SS119	
D515	8-719-911-19	DIODE 1SS119	
D517	8-719-110-72	DIODE RD30ES-B2	
D531	8-719-911-19	DIODE 1SS119	
D533	8-719-109-81	DIODE RD4.7ES-B2	
D536	8-719-300-33	DIODE RU-3AM	
D537	8-719-911-19	DIODE 1SS119	
D539 ⚠	8-719-302-43	DIODE EL1Z	
D1701	8-719-109-96	DIODE RD6.8ES-B1	
D1702	8-719-109-96	DIODE RD6.8ES-B1	
		<IC>	
IC101	8-759-636-30	IC M37200M6-A16SP	
IC102	8-759-972-43	IC PCD8582	
IC103	8-759-403-44	IC MN1280-S	
IC301 ⚠	8-752-035-52	IC CXA1313S	
IC500	8-759-980-58	IC TDA8172	
	*4-393-401-01	SPRING; IC500	
	4-393-405-01	SHEET (V), RADIATION; IC500	
IC531	8-759-103-93	IC UPC393C	
IC581 ⚠	8-759-142-04	IC UPC7893HF	
	*4-393-401-01	SPRING; IC581	
IC582 ⚠	8-759-142-04	IC UPC7893HF	
	*4-368-683-01	SPRING; IC582	
IC901 ⚠	8-759-924-12	IC LM7805CT	
IC1701	8-759-978-66	IC MB88201-638L	
		<IF BLOCK>	
IF201	1-464-755-21	IF BLOCK (IFE-450A)	
		<COIL>	
L101	1-408-421-00	INDUCTOR 100UH	
L102	1-408-415-00	INDUCTOR 33UH	
L201	1-408-408-00	INDUCTOR 8.2UH	
L500	1-422-613-11	COIL, AIR CORE	
L501	1-459-148-00	COIL	
L503	1-422-613-11	COIL, AIR CORE	
L505 ⚠	1-410-669-41	INDUCTOR 33UH	
L506	1-408-225-00	INDUCTOR 3.3UH	
L507	1-421-541-00	COIL, CHOKE 1000UH	
L508 ⚠	1-424-210-11	COIL, PIN MODULATION	
L509	1-422-613-11	COIL, AIR CORE	
L511	1-408-225-00	INDUCTOR 3.3UH	
L512 ⚠	1-459-973-21	COIL, HORIZONTAL LINEARITY	
L513	1-408-698-00	INDUCTOR 8.2UH	
L514 ⚠	1-408-698-21	INDUCTOR 8.2UH	
L1701	1-408-413-00	INDUCTOR 22UH	
		<NEON LAMP>	
NL501	1-519-108-99	LAMP, NEON	
		<MODULE>	
PM501 ⚠	1-808-690-11	MODULE, PROTECTOR (PM-14)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSISTOR>	
Q101	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q104	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q107	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q110	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q112	8-729-900-89	TRANSISTOR DTC144ES	
Q113	8-729-900-89	TRANSISTOR DTC144ES	
Q114	8-729-900-89	TRANSISTOR DTC144ES	
Q170	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q201	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q301	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q302	8-729-900-89	TRANSISTOR DTC144ES	
Q303	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q304	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q305	8-729-900-89	TRANSISTOR DTC144ES	
Q306	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q307	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q308	8-729-900-89	TRANSISTOR DTC144ES	
Q310	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q311	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q312	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q313	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q314	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q351	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q352	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q501	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q502	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q503	8-729-304-50	TRANSISTOR 2SD1941-06	
	*4-393-401-01	SPRING; Q503	
Q504	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q505	8-729-208-72	TRANSISTOR 2SC3298B-Y	
Q506	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
		<RESISTOR>	
R101	1-249-425-11	CARBON 4.7K 5% 1/4W	
R102	1-249-416-11	CARBON 820 5% 1/4W	
R103	1-215-896-00	METAL OXIDE 4.7K 5% 2W	F
R105	1-249-429-11	CARBON 10K 5% 1/4W	
R106	1-249-421-11	CARBON 2.2K 5% 1/4W	
R107	1-249-417-11	CARBON 1K 5% 1/4W	
R108	1-249-421-11	CARBON 2.2K 5% 1/4W	
R109	1-249-421-11	CARBON 2.2K 5% 1/4W	
R110	1-249-421-11	CARBON 2.2K 5% 1/4W	
R111	1-249-421-11	CARBON 2.2K 5% 1/4W	
R112	1-249-421-11	CARBON 2.2K 5% 1/4W	
R113	1-249-421-11	CARBON 2.2K 5% 1/4W	
R114	1-249-421-11	CARBON 2.2K 5% 1/4W	
R115	1-249-421-11	CARBON 2.2K 5% 1/4W	
R116	1-249-409-11	CARBON 220 5% 1/4W	
R117	1-249-409-11	CARBON 220 5% 1/4W	
R118	1-249-409-11	CARBON 220 5% 1/4W	
R119	1-249-431-11	CARBON 15K 5% 1/4W	
R120	1-249-421-11	CARBON 2.2K 5% 1/4W	
R121	1-249-421-11	CARBON 2.2K 5% 1/4W	
R122	1-249-421-11	CARBON 2.2K 5% 1/4W	
R123	1-249-421-11	CARBON 2.2K 5% 1/4W	
R124	1-249-421-11	CARBON 2.2K 5% 1/4W	
R125	1-249-421-11	CARBON 2.2K 5% 1/4W	
R126	1-249-429-11	CARBON 10K 5% 1/4W	
R127	1-249-413-11	CARBON 470 5% 1/4W	
R128	1-249-425-11	CARBON 4.7K 5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R129	1-249-413-11	CARBON	470	5%	1/4W	
R130	1-249-437-11	CARBON	47K	5%	1/4W	
R131	1-249-429-11	CARBON	10K	5%	1/4W	
R132	1-249-429-11	CARBON	10K	5%	1/4W	
R133	1-249-421-11	CARBON	2.2K	5%	1/4W	
R134	1-249-421-11	CARBON	2.2K	5%	1/4W	
R135	1-249-429-11	CARBON	10K	5%	1/4W	
R136	1-249-429-11	CARBON	10K	5%	1/4W	
R137	1-249-409-11	CARBON	220	5%	1/4W	
R138	1-249-425-11	CARBON	4.7K	5%	1/4W	
R139	1-249-421-11	CARBON	2.2K	5%	1/4W	
R140	1-249-413-11	CARBON	470	5%	1/4W	
R141	1-249-427-11	CARBON	6.8K	5%	1/4W	
R142	1-249-437-11	CARBON	47K	5%	1/4W	
R143	1-249-437-11	CARBON	47K	5%	1/4W	
R144	1-215-896-00	METAL OXIDE	4.7K	5%	2W	F
R145	1-249-429-11	CARBON	10K	5%	1/4W	
R146	1-247-903-00	CARBON	1M	5%	1/4W	
R147	1-249-429-11	CARBON	10K	5%	1/4W	
R148	1-249-429-11	CARBON	10K	5%	1/4W	
R149	1-215-896-00	METAL OXIDE	4.7K	5%	2W	F
R150	1-249-441-11	CARBON	100K	5%	1/4W	
R152	1-249-425-11	CARBON	4.7K	5%	1/4W	
R153	1-249-429-11	CARBON	10K	5%	1/4W	
R154	1-249-429-11	CARBON	10K	5%	1/4W	
R156	1-249-409-11	CARBON	220	5%	1/4W	
R157	1-249-417-11	CARBON	1K	5%	1/4W	
R158	1-249-429-11	CARBON	10K	5%	1/4W	
R159	1-249-437-11	CARBON	47K	5%	1/4W	
R160	1-247-887-00	CARBON	220K	5%	1/4W	
R161	1-249-409-11	CARBON	220	5%	1/4W	
R162	1-249-409-11	CARBON	220	5%	1/4W	
R163	1-249-421-11	CARBON	2.2K	5%	1/4W	
R164	1-249-409-11	CARBON	220	5%	1/4W	
R165	1-249-409-11	CARBON	220	5%	1/4W	
R166	1-249-409-11	CARBON	220	5%	1/4W	
R167	1-249-429-11	CARBON	10K	5%	1/4W	
R168	1-249-429-11	CARBON	10K	5%	1/4W	
R169	1-249-429-11	CARBON	10K	5%	1/4W	
R170	1-249-429-11	CARBON	10K	5%	1/4W	
R171	1-249-421-11	CARBON	2.2K	5%	1/4W	
R172	1-249-429-11	CARBON	10K	5%	1/4W	
R173	1-249-421-11	CARBON	2.2K	5%	1/4W	
R174	1-249-421-11	CARBON	2.2K	5%	1/4W	
R175	1-249-421-11	CARBON	2.2K	5%	1/4W	
R176	1-249-433-11	CARBON	22K	5%	1/4W	
R177	1-249-409-11	CARBON	220	5%	1/4W	
R178	1-249-413-11	CARBON	470	5%	1/4W	
R179	1-249-410-11	CARBON	270	5%	1/4W	
R181	1-249-417-11	CARBON	1K	5%	1/4W	
R182	1-249-421-11	CARBON	2.2K	5%	1/4W	
R183	1-249-421-11	CARBON	2.2K	5%	1/4W	
R184	1-249-417-11	CARBON	1K	5%	1/4W	
R185	1-249-417-11	CARBON	1K	5%	1/4W	
R186	1-249-433-11	CARBON	22K	5%	1/4W	
R187	1-249-421-11	CARBON	2.2K	5%	1/4W	
R188	1-249-425-11	CARBON	4.7K	5%	1/4W	
R189	1-249-433-11	CARBON	22K	5%	1/4W	
R190	1-249-421-11	CARBON	2.2K	5%	1/4W	
R191	1-249-421-11	CARBON	2.2K	5%	1/4W	
R192	1-249-421-11	CARBON	2.2K	5%	1/4W	
R194	1-249-417-11	CARBON	1K	5%	1/4W	
R195	1-249-421-11	CARBON	2.2K	5%	1/4W	
R196	1-249-417-11	CARBON	1K	5%	1/4W	
R197	1-259-884-11	CARBON	4.7M	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R198	1-249-425-11	CARBON	4.7K	5%	1/4W	
R200	1-249-417-11	CARBON	1K	5%	1/4W	
R201	1-249-425-11	CARBON	4.7K	5%	1/4W	
R202	1-249-429-11	CARBON	10K	5%	1/4W	
R203	1-249-434-11	CARBON	27K	5%	1/4W	
R204	1-249-436-11	CARBON	39K	5%	1/4W	
R205	1-249-411-11	CARBON	330	5%	1/4W	
R209	1-249-417-11	CARBON	1K	5%	1/4W	
R220	1-249-433-11	CARBON	22K	5%	1/4W	
R221	1-249-433-11	CARBON	22K	5%	1/4W	
R224	1-249-417-11	CARBON	1K	5%	1/4W	
R225	1-249-417-11	CARBON	1K	5%	1/4W	
R226	1-249-433-11	CARBON	22K	5%	1/4W	
R227	1-249-441-11	CARBON	100K	5%	1/4W	
R228	1-249-437-11	CARBON	47K	5%	1/4W	
R230	1-249-409-11	CARBON	220	5%	1/4W	
R231	1-249-411-11	CARBON	330	5%	1/4W	
R234	1-249-409-11	CARBON	220	5%	1/4W	
R236	1-249-417-11	CARBON	1K	5%	1/4W	
R301	1-215-448-00	METAL	13K	1%	1/6W	
R304	1-249-432-11	CARBON	18K	5%	1/4W	
R305	1-247-899-11	CARBON	680K	5%	1/4W	
R306	1-215-421-00	METAL	1K	1%	1/6W	
R307	1-249-405-11	CARBON	100	5%	1/4W	
R308	1-249-405-11	CARBON	100	5%	1/4W	
R309	1-249-405-11	CARBON	100	5%	1/4W	
R310	1-249-409-11	CARBON	220	5%	1/4W	
R311	1-249-409-11	CARBON	220	5%	1/4W	
R312	1-249-409-11	CARBON	220	5%	1/4W	
R313	1-249-409-11	CARBON	220	5%	1/4W	
R314	1-249-409-11	CARBON	220	5%	1/4W	
R315	1-249-417-11	CARBON	1K	5%	1/4W	
R316	1-249-425-11	CARBON	4.7K	5%	1/4W	
R317	1-249-429-11	CARBON	10K	5%	1/4W	
R318	1-249-437-11	CARBON	47K	5%	1/4W	
R320	1-249-429-11	CARBON	10K	5%	1/4W	
R321	1-249-441-11	CARBON	100K	5%	1/4W	
R322	1-249-428-11	CARBON	8.2K	5%	1/4W	
R323	1-215-457-00	METAL	33K	1%	1/6W	
R324	1-249-405-11	CARBON	100	5%	1/4W	
R325	1-249-414-11	CARBON	560	5%	1/4W	
R326	1-249-421-11	CARBON	2.2K	5%	1/4W	
R327	1-249-417-11	CARBON	1K	5%	1/4W	
R328	1-249-413-11	CARBON	470	5%	1/4W	
R329	1-249-425-11	CARBON	4.7K	5%	1/4W	
R330	1-249-421-11	CARBON	2.2K	5%	1/4W	
R332	1-247-895-00	CARBON	470K	5%	1/4W	
R333	1-249-409-11	CARBON	220	5%	1/4W	
R334	1-249-420-11	CARBON	1.8K	5%	1/4W	
R335	1-249-441-11	CARBON	100K	5%	1/4W	
R336	1-249-405-11	CARBON	100	5%	1/4W	
R337	1-249-438-11	CARBON	56K	5%	1/4W	
R339	1-249-411-11	CARBON	330	5%	1/4W	
R340	1-249-405-11	CARBON	100	5%	1/4W	
R341	1-249-405-11	CARBON	100	5%	1/4W	
R342	1-249-405-11	CARBON	100	5%	1/4W	
R343	1-249-405-11	CARBON	100	5%	1/4W	
R344	1-249-405-11	CARBON	100	5%	1/4W	
R346	1-249-413-11	CARBON	470	5%	1/4W	
R347	1-259-884-11	CARBON	4.7M	5%	1/4W	
R349	1-249-409-11	CARBON	220	5%	1/4W	
R350	1-249-423-11	CARBON	3.3K	5%	1/4W	
R351	1-249-441-11	CARBON	100K	5%	1/4W	

Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro specifié.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R352	1-249-441-11	CARBON	100K	5%	1/4W	
R353	1-249-441-11	CARBON	100K	5%	1/4W	
R354	1-249-433-11	CARBON	22K	5%	1/4W	
R355	1-249-433-11	CARBON	22K	5%	1/4W	
R356	1-249-433-11	CARBON	22K	5%	1/4W	
R357	1-249-437-11	CARBON	47K	5%	1/4W	
R358	1-247-891-00	CARBON	330K	5%	1/4W	
R359	1-249-433-11	CARBON	22K	5%	1/4W	
R360	1-249-433-11	CARBON	22K	5%	1/4W	
R361	1-249-431-11	CARBON	15K	5%	1/4W	
R362	1-249-421-11	CARBON	2.2K	5%	1/4W	
R363	1-249-421-11	CARBON	2.2K	5%	1/4W	
R364	1-249-405-11	CARBON	100	5%	1/4W	
R365	1-249-405-11	CARBON	100	5%	1/4W	
R366	1-249-437-11	CARBON	47K	5%	1/4W	
R367	1-249-417-11	CARBON	1K	5%	1/4W	
R368	1-249-417-11	CARBON	1K	5%	1/4W	
R370	1-249-405-11	CARBON	100	5%	1/4W	
R371	1-249-413-11	CARBON	470	5%	1/4W	
R373	1-249-417-11	CARBON	1K	5%	1/4W	
R374	1-249-428-11	CARBON	8.2K	5%	1/4W	
R375	1-249-421-11	CARBON	2.2K	5%	1/4W	
R376	1-249-425-11	CARBON	4.7K	5%	1/4W	
R377	1-249-438-11	CARBON	56K	5%	1/4W	
R378	1-249-427-11	CARBON	6.8K	5%	1/4W	
R379	1-249-421-11	CARBON	2.2K	5%	1/4W	
R381	1-249-421-11	CARBON	2.2K	5%	1/4W	
R382	1-249-413-11	CARBON	470	5%	1/4W	
R383	1-249-429-11	CARBON	10K	5%	1/4W	
R385	1-247-903-00	CARBON	1M	5%	1/4W	
R386	1-249-417-11	CARBON	1K	5%	1/4W	
R388	1-249-409-11	CARBON	220	5%	1/4W	
R500	1-249-433-11	CARBON	22K	5%	1/4W	
R501	1-215-459-00	METAL	39K	1%	1/6W	
R502	1-216-371-00	METAL OXIDE	1.5	5%	2W	F
R503	1-249-437-11	CARBON	47K	5%	1/4W	
R504	1-215-446-00	METAL	11K	1%	1/6W	
R505	1-216-453-00	METAL OXIDE	270	5%	2W	F
R506	1-249-417-11	CARBON	1K	5%	1/4W	
R507	1-249-439-11	CARBON	68K	5%	1/4W	
R510	1-249-385-11	CARBON	2.2	5%	1/4W	F
R511	1-249-436-11	CARBON	39K	5%	1/4W	
R513	1-249-425-11	CARBON	4.7K	5%	1/4W	
R516 ⚠	1-249-443-51	CARBON	0.47	5%	1/4W	F
R517 ⚠	1-216-355-91	METAL OXIDE	3.3	5%	1W	F
R518	1-249-482-11	CARBON	4.7	5%	1/2W	F
R519 ⚠	1-215-871-91	METAL OXIDE	2.2K	5%	1W	F
R521 ⚠	1-249-465-91	CARBON	47K	5%	1/4W	F
R522	1-215-868-00	METAL OXIDE	680	5%	1W	F
R523	1-216-342-11	METAL OXIDE	0.27	5%	1W	F
R524	1-215-890-11	METAL OXIDE	470	5%	2W	F
R528	1-215-880-00	METAL OXIDE	10	5%	2W	F
R529	1-249-426-11	CARBON	5.6K	5%	1/4W	
R530	1-247-887-00	CARBON	220K	5%	1/4W	
R531	1-216-480-11	METAL OXIDE	820	5%	3W	F
R533	1-249-429-11	CARBON	10K	5%	1/4W	
R534	1-249-437-11	CARBON	47K	5%	1/4W	
R535	1-249-432-11	CARBON	18K	5%	1/4W	
R536	1-247-889-00	CARBON	270K	5%	1/4W	
R537	1-247-883-00	CARBON	150K	5%	1/4W	
R538	1-247-883-00	CARBON	150K	5%	1/4W	
R539	1-216-480-11	METAL OXIDE	820	5%	3W	F
R541	1-215-437-00	METAL	4.7K	1%	1/6W	
R542	1-249-441-11	CARBON	100K	5%	1/4W	
R544	1-247-903-00	CARBON	1M	5%	1/4W	
R545	1-247-903-00	CARBON	1M	5%	1/4W	
R546	1-247-891-00	CARBON	330K	5%	1/4W	
R547	1-247-903-00	CARBON	1M	5%	1/4W	
⧓R549 ⚠		CARBON			1/4W	
R551	1-249-413-11	CARBON	470	5%	1/4W	
R552	1-249-405-11	CARBON	100	5%	1/4W	F
R553	1-249-401-11	CARBON	47	5%	1/4W	
R554	1-249-423-11	CARBON	3.3K	5%	1/4W	
R555	1-247-722-11	CARBON	5.6K	5%	1/4W	F
R556 ⚠	1-249-455-91	CARBON	4.7	5%	1/4W	F
R558	1-215-890-11	METAL OXIDE	470	5%	2W	F
R559 ⚠	1-216-380-91	METAL OXIDE	8.2	5%	2W	F
R560	1-247-887-00	CARBON	220K	5%	1/4W	
R561	1-249-441-11	CARBON	100K	5%	1/4W	
R562	1-247-734-11	CARBON	39	5%	1/2W	F
R563	1-215-890-11	METAL OXIDE	470	5%	2W	F
R564 ⚠	1-249-847-91	CARBON	4.7K	5%	1/4W	
⧓R567 ⚠		CARBON			1/4W	
R568	1-249-431-11	CARBON	15K	5%	1/4W	
R569	1-249-425-11	CARBON	4.7K	5%	1/4W	
R570	1-249-439-11	CARBON	68K	5%	1/4W	
R571 ⚠	1-213-048-61	FUSIBLE	3.3	5%	1W	F
R572 ⚠	1-216-377-91	METAL OXIDE	4.7	5%	2W	F
R573 ⚠	1-216-377-91	METAL OXIDE	4.7	5%	2W	F
R574	1-249-409-11	CARBON	220	5%	1/4W	F
R575	1-249-405-11	CARBON	100	5%	1/4W	
R610	1-249-409-11	CARBON	220	5%	1/4W	
R1701	1-249-417-11	CARBON	1K	5%	1/4W	
R1702	1-249-417-11	CARBON	1K	5%	1/4W	
R1703	1-249-417-11	CARBON	1K	5%	1/4W	
R1704	1-249-417-11	CARBON	1K	5%	1/4W	
R1705	1-249-417-11	CARBON	1K	5%	1/4W	
R1706	1-249-417-11	CARBON	1K	5%	1/4W	
R1707	1-249-417-11	CARBON	1K	5%	1/4W	
R1708	1-249-417-11	CARBON	1K	5%	1/4W	
R1709	1-249-417-11	CARBON	1K	5%	1/4W	
R1710	1-249-417-11	CARBON	1K	5%	1/4W	
R1711	1-249-417-11	CARBON	1K	5%	1/4W	
R1712	1-249-417-11	CARBON	1K	5%	1/4W	
R1713	1-249-429-11	CARBON	10K	5%	1/4W	
R1714	1-249-429-11	CARBON	10K	5%	1/4W	
R1715	1-249-429-11	CARBON	10K	5%	1/4W	

<SPARK GAP>

REF.NO.	PART NO.	DESCRIPTION
SG501	1-519-422-11	GAP, SPARK

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION
T500 ⚠	1-439-455-11	TRANSFORMER ASSY, FLYBACK (NX-2300)
T501 ⚠	1-437-195-12	TRANSFORMER, HORIZONTAL DRIVE

<TUNER>

REF.NO.	PART NO.	DESCRIPTION
TU101 ⚠	1-463-771-11	TUNER, ET (BTP-201A)

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION
X101	1-577-082-11	VIBRATOR, CERAMIC
X301	1-567-505-11	OSCILLATOR, CRYSTAL

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- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*1-635-250-11	X1 BOARD ********				
	*1-568-380-21	PIN, CONNECTOR 15P				
		<CAPACITOR>				
C251	1-124-903-11	ELECT	1MF	20%	50V	
C252	1-136-157-00	FILM	0.022MF	5%	50V	
C253	1-124-903-11	ELECT	1MF	20%	50V	
C254	1-130-309-00	FILM	0.033MF	5%	100V	
C255	1-124-903-11	ELECT	1MF	20%	50V	
C256	1-124-478-11	ELECT	100MF	20%	25V	
C257	1-124-927-11	ELECT	4.7MF	20%	50V	
C258	1-124-902-00	ELECT	0.47MF	20%	50V	
C259	1-124-903-11	ELECT	1MF	20%	50V	
C260	1-124-903-11	ELECT	1MF	20%	50V	
C261	1-131-347-00	TANTALUM	1MF	20%	16V	
C262	1-124-903-11	ELECT	1MF	20%	50V	
C263	1-124-903-11	ELECT	1MF	20%	50V	
C264	1-124-907-11	ELECT	10MF	20%	50V	
C265	1-136-170-00	FILM	0.27MF	5%	50V	
C266	1-124-907-11	ELECT	10MF	20%	50V	
C267	1-131-368-00	TANTALUM	3.3MF	10%	16V	
C268	1-124-903-11	ELECT	1MF	20%	50V	
C269	1-131-347-00	TANTALUM	1MF	20%	16V	
C270	1-124-903-11	ELECT	1MF	20%	50V	
C271	1-124-907-11	ELECT	10MF	20%	50V	
C272	1-124-903-11	ELECT	1MF	20%	50V	
C273	1-124-477-11	ELECT	47MF	20%	16V	
C274	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C275	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C276	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C277	1-124-907-11	ELECT	10MF	20%	50V	
C278	1-124-903-11	ELECT	1MF	20%	50V	
C280	1-124-907-11	ELECT	10MF	20%	50V	
C281	1-124-907-11	ELECT	10MF	20%	50V	
C282	1-124-927-11	ELECT	4.7MF	20%	50V	
C284	1-124-927-11	ELECT	4.7MF	20%	50V	
C285	1-136-171-00	FILM	0.33MF	5%	50V	
C286	1-136-175-00	FILM	0.68MF	5%	50V	
C290	1-124-907-11	ELECT	10MF	20%	50V	
C291	1-124-907-11	ELECT	10MF	20%	50V	
C292	1-124-907-11	ELECT	10MF	20%	50V	
C293	1-126-233-11	ELECT	22MF	20%	50V	
C294	1-124-907-11	ELECT	10MF	20%	50V	
C295	1-101-005-00	CERAMIC	0.022MF		50V	
C296	1-101-005-00	CERAMIC	0.022MF		50V	
		<DIODE>				
D251	8-719-110-48	DIODE RD18ES-B1				
D252	8-719-110-48	DIODE RD18ES-B1				
D253	8-719-110-48	DIODE RD18ES-B1				
D270	8-719-109-90	DIODE RD5.6ES-B3				
D271	8-719-911-19	DIODE 1SS119				
		<IC>				
IC251	8-752-037-24	IC CXA1264AS				
		<TRANSISTOR>				

REF.NO.	PART NO.	DESCRIPTION				REMARK
Q270	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q271	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q272	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q273	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q280	8-729-423-37	TRANSISTOR 2SC3311A-QRS				
Q281	8-729-423-37	TRANSISTOR 2SC3311A-QRS				
		<RESISTOR>				
R251	1-215-443-00	METAL	8.2K	1%	1/6W	
R252	1-215-443-00	METAL	8.2K	1%	1/6W	
R253	1-249-409-11	CARBON	220	5%	1/4W	
R254	1-249-409-11	CARBON	220	5%	1/4W	
R255	1-249-420-11	CARBON	1.8K	5%	1/4W	
R256	1-249-405-11	CARBON	100	5%	1/4W	
R257	1-215-445-00	METAL	10K	1%	1/6W	
R258	1-215-445-00	METAL	10K	1%	1/6W	
R259	1-249-409-11	CARBON	220	5%	1/4W	
R260	1-249-409-11	CARBON	220	5%	1/4W	
R261	1-249-409-11	CARBON	220	5%	1/4W	
R262	1-249-409-11	CARBON	220	5%	1/4W	
R266	1-215-456-00	METAL	30K	1%	1/6W	
R270	1-249-428-11	CARBON	8.2K	5%	1/4W	
R271	1-249-428-11	CARBON	8.2K	5%	1/4W	
R272	1-215-455-00	METAL	27K	1%	1/6W	
R273	1-215-455-00	METAL	27K	1%	1/6W	
R274	1-249-417-11	CARBON	1K	5%	1/4W	
R275	1-249-417-11	CARBON	1K	5%	1/4W	
R276	1-249-405-11	CARBON	100	5%	1/4W	
R277	1-249-405-11	CARBON	100	5%	1/4W	
R278	1-249-429-11	CARBON	10K	5%	1/4W	
R279	1-249-429-11	CARBON	10K	5%	1/4W	
R280	1-249-420-11	CARBON	1.8K	5%	1/4W	
R281	1-249-428-11	CARBON	8.2K	5%	1/4W	
R282	1-249-429-11	CARBON	10K	5%	1/4W	
R283	1-249-429-11	CARBON	10K	5%	1/4W	
R284	1-249-441-11	CABBON	100K	5%	1/4W	
R285	1-247-903-00	CARBON	1M	5%	1/4W	
R286	1-249-393-11	CARBON	10	5%	1/4W	
R290	1-215-441-00	METAL	6.8K	1%	1/6W	
R291	1-215-441-00	METAL	6.8K	1%	1/6W	
R292	1-249-433-11	CARBON	22K	5%	1/4W	
R293	1-249-433-11	CARBON	22K	5%	1/4W	
R294	1-249-433-11	CARBON	22K	5%	1/4W	
R295	1-249-433-11	CARBON	22K	5%	1/4W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1331-138-A	C BOARD, COMPLETE *****************				
	*4-379-160-01	COVER (REAR LID), CV				
	*4-379-167-01	COVER (MAIN), CV				
		<CONNECTOR>				
C1	1-506-348-99	PIN, CONNECTOR 3P				
C33	*1-564-511-11	PLUG, CONNECTOR 8P				
C82	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P				
		<CAPACITOR>				
C701	1-162-116-00	CERAMIC	680PF	10%	2KV	
C702	1-136-601-11	FILM	0.01MF	5%	630V	
C703	1-124-907-11	ELECT	10MF	20%	50V	

C

Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
C704	1-123-946-00	ELECT	4.7MF	20%	250V	
C705	1-101-821-00	CERAMIC	0.0022MF		500V	
C707	1-102-116-00	CERAMIC	680PF	10%	50V	
C708	1-102-116-00	CERAMIC	680PF	10%	50V	
C709	1-102-116-00	CERAMIC	680PF	10%	50V	
C710	1-164-082-11	CERAMIC	560PF	10%	50V	
C711	1-126-233-11	ELECT	22MF	20%	25V	
C712	1-164-081-11	CERAMIC	470PF	10%	50V	
C713	1-164-082-11	CERAMIC	560PF	10%	50V	
C714	1-162-622-11	CERAMIC	330PF	10%	6.3KV	
C715	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C718	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C719	1-126-233-11	ELECT	22MF	20%	25V	
C720	1-126-233-11	ELECT	22MF	20%	25V	
C721	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C730	1-102-116-00	CERAMIC	680PF	10%	50V	
C731	1-102-116-00	CERAMIC	680PF	10%	50V	
C732	1-102-116-00	CERAMIC	680PF	10%	50V	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D701	8-719-911-19	DIODE 1SS119
D702	8-719-911-19	DIODE 1SS119
D703	8-719-911-19	DIODE 1SS119
D704	8-719-911-19	DIODE 1SS119
D705	8-719-911-19	DIODE 1SS119
D706	8-719-911-19	DIODE 1SS119
D707	8-719-911-19	DIODE 1SS119
D708	8-719-911-19	DIODE 1SS119
D709	8-719-911-19	DIODE 1SS119
D710	8-719-901-83	DIODE 1SS83
D711	8-719-901-83	DIODE 1SS83
D712	8-719-901-83	DIODE 1SS83
D713	8-719-901-83	DIODE 1SS83

<JACK>

REF.NO.	PART NO.	DESCRIPTION
J701	1-540-071-11	SOCKET, PICTURE TUBE

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L701	⚠ 1-408-417-31	INDUCTOR	47UH
L702	1-408-421-00	INDUCTOR	100UH
L703	1-408-420-00	INDUCTOR	82UH
L704	1-408-410-00	INDUCTOR	12UH
L705	1-408-411-00	INDUCTOR	15UH
L706	1-408-421-00	INDUCTOR	100UH
L707	1-408-411-00	INDUCTOR	15UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q701	8-729-326-11	TRANSISTOR 2SC2611
Q702	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q703	8-729-200-17	TRANSISTOR 2SA1091-0
Q704	8-729-326-11	TRANSISTOR 2SC2611
Q705	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q706	8-729-200-17	TRANSISTOR 2SA1091-0
Q707	8-729-200-17	TRANSISTOR 2SA1091-0
Q708	8-729-326-11	TRANSISTOR 2SC2611
Q709	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q710	8-729-255-12	TRANSISTOR 2SC2551-0
Q711	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q712	8-729-255-12	TRANSISTOR 2SC2551-0
Q713	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q714	8-729-200-17	TRANSISTOR 2SA1091-0
Q715	8-729-200-17	TRANSISTOR 2SA1091-0
Q716	8-729-200-17	TRANSISTOR 2SA1091-0

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R701	1-216-392-11	METAL OXIDE	1.8	5%	3W	F
R702	1-202-848-00	SOLID	680K	10%	1/2W	
R703	1-202-815-11	SOLID	47K	10%	1/2W	
R704	1-202-846-00	SOLID	470K	10%	1/2W	
R705	1-202-549-00	SOLID	100	10%	1/2W	
R706	1-202-838-00	SOLID	100K	10%	1/2W	
R707	1-202-842-11	SOLID	220K	10%	1/2W	
R708	1-202-818-00	SOLID	1K	10%	1/2W	
R709	1-202-818-00	SOLID	1K	10%	1/2W	
R710	1-202-818-00	SOLID	1K	10%	1/2W	
R711	1-202-837-00	SOLID	82K	10%	1/2W	
R712	1-202-842-11	SOLID	220K	10%	1/2W	
R713	⚠ 1-216-486-51	METAL OXIDE	8.2K	5%	3W	F
R714	1-249-409-11	CARBON	220	5%	1/4W	
R715	1-202-818-00	SOLID	1K	10%	1/2W	
R716	⚠ 1-216-486-51	METAL OXIDE	8.2K	5%	3W	F
R717	1-249-409-11	CARBON	220	5%	1/4W	
R718	1-249-409-11	CARBON	220	5%	1/4W	
R720	⚠ 1-216-486-51	METAL OXIDE	8.2K	5%	3W	F
R721	1-202-842-11	SOLID	220K	10%	1/2W	
R723	1-249-405-11	CARBON	100	5%	1/4W	
R724	1-249-405-11	CARBON	100	5%	1/4W	
R725	1-249-429-11	CARBON	10K	5%	1/4W	
R726	1-249-407-11	CARBON	150	5%	1/4W	
R727	1-249-429-11	CARBON	10K	5%	1/4W	
R728	1-249-407-11	CARBON	150	5%	1/4W	
R729	1-249-405-11	CARBON	100	5%	1/4W	
R730	1-249-407-11	CARBON	150	5%	1/4W	
R731	1-247-704-11	CARBON	220	5%	1/4W	F
R732	1-247-704-11	CARBON	220	5%	1/4W	F
R733	1-247-704-11	CARBON	220	5%	1/4W	F
R739	1-249-433-11	CARBON	22K	5%	1/4W	
R740	1-215-902-11	METAL OXIDE	47K	5%	2W	F
R741	1-249-417-11	CARBON	1K	5%	1/4W	
R742	1-249-429-11	CARBON	10K	5%	1/4W	F
R743	1-249-429-11	CARBON	10K	5%	1/4W	F
R744	1-247-725-11	CARBON	10K	5%	1/4W	F
R745	1-247-713-11	CARBON	1K	5%	1/4W	F
R746	1-215-902-11	METAL OXIDE	47K	5%	1W	F
R747	1-247-725-11	CARBON	10K	5%	1/4W	F
R749	1-249-437-11	CARBON	47K	5%	1/4W	
R750	1-249-409-11	CARBON	220	5%	1/4W	
R751	1-249-397-11	CARBON	22	5%	1/4W	
R752	1-249-397-11	CARBON	22	5%	1/4W	
R753	1-249-397-11	CARBON	22	5%	1/4W	
R754	1-249-429-11	CARBON	10K	5%	1/4W	
R755	1-249-411-11	CARBON	330	5%	1/4W	
R757	1-249-418-11	CARBON	1.2K	5%	1/4W	
R777	1-249-441-11	CARBON	100K	5%	1/4W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M
RV702	⚠ 1-230-619-11	RES, ADJ, METAL GLAZE 110M

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REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1347-039-A	V BOARD, COMPLETE (KV-27XBR55(U/C) ONLY)				
		*****************				
	*1-566-057-11	PIN, CONNECTOR 5P				
	*1-566-060-11	PIN, CONNECTOR 8P				
	*1-566-061-11	PIN, CONNECTOR 9P				
	*4-376-533-01	CASE (MAIN), SHIELD				
	*4-376-535-01	CASE (BOTTOM), SHIELD				

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1104	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C1105	1-126-101-11	ELECT	100MF	20%	16V	
C1106	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C1107	1-126-101-11	ELECT	100MF	20%	16V	
C1108	1-101-888-00	CERAMIC	68PF	5%	50V	
C1112	1-102-816-00	CERAMIC	120PF	5%	50V	
C1113	1-102-973-00	CERAMIC	100PF	5%	50V	
C1114	1-106-355-12	MYLAR	0.0033MF	10%	100V	
C1115	1-102-973-00	CERAMIC	100PF	5%	50V	
C1117	1-124-903-11	ELECT	1MF	20%	50V	
C1118	1-106-367-00	MYLAR	0.01MF	10%	100V	
C1119	1-102-816-00	CERAMIC	120PF	5%	50V	
C1123	1-126-101-11	ELECT	100MF	20%	16V	
C1124	1-101-004-00	CERAMIC	0.01MF		50V	
C1125	1-101-888-00	CERAMIC	68PF	5%	50V	
C1126	1-102-935-00	CERAMIC	2PF	0.25PF	50V	
C1127	1-102-943-00	CERAMIC	6PF	1PF	50V	
C1131	1-124-034-51	ELECT	33MF	20%	16V	
C1133	1-126-101-11	ELECT	100MF	20%	16V	
C1134	1-101-004-00	CERAMIC	0.01MF		50V	
C1135	1-124-034-51	ELECT	33MF	20%	16V	
C1136	1-101-004-00	CERAMIC	0.01MF		50V	
C1137	1-101-004-00	CERAMIC	0.01MF		50V	
C1138	1-124-034-51	ELECT	33MF	20%	16V	
C1139	1-101-004-00	CERAMIC	0.01MF		50V	
C1140	1-101-004-00	CERAMIC	0.01MF		50V	
C1141	1-106-383-00	MYLAR	0.047MF	10%	100V	
C1143	1-124-902-00	ELECT	0.47MF	20%	50V	
C1144	1-101-004-00	CERAMIC	0.01MF		50V	
C1145	1-124-927-11	ELECT	4.7MF	20%	50V	
C1146	1-124-927-11	ELECT	4.7MF	20%	50V	
C1149	1-101-004-00	CERAMIC	0.01MF		50V	
C1150	1-106-359-00	MYLAR	0.0047MF	10%	100V	
C1151	1-124-907-11	ELECT	10MF	20%	50V	
C1152	1-124-034-51	ELECT	33MF	20%	16V	
C1153	1-101-004-00	CERAMIC	0.01MF		50V	
C1154	1-124-034-51	ELECT	33MF	20%	16V	
C1155	1-124-902-00	ELECT	0.47MF	20%	50V	
C1156	1-124-034-51	ELECT	33MF	20%	16V	
C1157	1-124-034-51	ELECT	33MF	20%	16V	
C1158	1-102-111-00	CERAMIC	270PF	10%	50V	
C1159	1-126-101-11	ELECT	100MF	20%	16V	
C1160	1-102-947-00	CERAMIC	10PF	0.5PF	50V	
C1161	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C1162	1-124-034-51	ELECT	33MF	20%	16V	

<NETWORK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CP1101	1-236-176-11	NETWORK, RES, THICK FILM	
CP1102	1-236-176-11	NETWORK, RES, THICK FILM	
CP1103	1-236-176-11	NETWORK, RES, THICK FILM	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1101	8-713-300-57	DIODE 1T33	
D1102	8-713-300-57	DIODE 1T33	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FL1101	1-236-129-11	ENCAPSULATED COMPONENT	
FL1103	1-236-129-11	ENCAPSULATED COMPONENT	
FL1109	1-236-129-11	ENCAPSULATED COMPONENT	
FL1110	1-236-129-11	ENCAPSULATED COMPONENT	
FL1111	1-236-164-11	ENCAPSULATED COMPONENT	
FL1116	1-236-071-11	ENCAPSULATED COMPONENT	
FL1120	1-236-164-11	ENCAPSULATED COMPONENT	
FL1121	1-236-129-11	ENCAPSULATED COMPONENT	
FL1129	1-236-163-11	ENCAPSULATED COMPONENT	
FL1130	1-236-163-11	ENCAPSULATED COMPONENT	
FL1132	1-236-071-11	ENCAPSULATED COMPONENT	
FL1144	1-236-129-11	ENCAPSULATED COMPONENT	
FL1147	1-236-163-11	ENCAPSULATED COMPONENT	
FL1148	1-236-163-11	ENCAPSULATED COMPONENT	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1101	8-752-332-83	IC CXD1220AQ	
IC1102	8-759-925-74	IC SN74HC04ANS	
IC1103	8-759-925-74	IC SN74HC04ANS	
IC1104	8-759-605-15	IC M5M4C500L-10	
IC1105	8-759-605-15	IC M5M4C500L-10	
IC1106	8-759-605-15	IC M5M4C500L-10	
IC1107	8-759-605-14	IC M52678P	
IC1108	8-759-605-14	IC M52678P	
IC1109	8-759-011-65	IC MC74HC4053F	

<COIL>

REF.NO.	PART NO.	DESCRIPTION		REMARK
L1101	1-410-663-31	INDUCTOR	10UH	
L1102	1-410-645-31	INDUCTOR	100UH	
L1103	1-410-677-31	INDUCTOR	180UH	
L1104	1-410-663-31	INDUCTOR	10UH	
L1105	1-410-663-31	INDUCTOR	10UH	
L1106	1-410-680-31	INDUCTOR	330UH	
L1107	1-410-663-31	INDUCTOR	10UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1101	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1102	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1103	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1104	8-729-119-78	TRANSISTOR 2SC2785-HFE	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1101	1-249-417-11	CARBON	1K	5%	1/4W	
R1102	1-249-417-11	CARBON	1K	5%	1/4W	
R1103	1-249-417-11	CARBON	1K	5%	1/4W	
R1104	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1105	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1106	1-249-409-11	CARBON	220	5%	1/4W	
R1107	1-249-417-11	CARBON	1K	5%	1/4W	
R1108	1-249-417-11	CARBON	1K	5%	1/4W	
R1109	1-249-417-11	CARBON	1K	5%	1/4W	
R1110	1-249-439-11	CARBON	68K	5%	1/4W	
R1111	1-249-417-11	CARBON	1K	5%	1/4W	
R1112	1-249-438-11	CARBON	56K	5%	1/4W	
R1113	1-249-441-11	CARBON	100K	5%	1/4W	
R1114	1-249-417-11	CARBON	1K	5%	1/4W	
R1115	1-249-421-11	CARBON	2.2K	5%	1/4W	

Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1116	1-249-431-11	CARBON	15K	5%	1/4W	
R1117	1-249-438-11	CARBON	56K	5%	1/4W	
R1118	1-249-441-11	CARBON	100K	5%	1/4W	
R1119	1-249-439-11	CARBON	68K	5%	1/4W	
R1120	1-249-409-11	CARBON	220	5%	1/4W	
R1121	1-249-409-11	CARBON	220	5%	1/4W	
R1122	1-249-417-11	CARBON	1K	5%	1/4W	
R1123	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1124	1-249-431-11	CARBON	15K	5%	1/4W	
R1125	1-249-417-11	CARBON	1K	5%	1/4W	
R1126	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1127	1-249-431-11	CARBON	15K	5%	1/4W	
R1128	1-249-417-11	CARBON	1K	5%	1/4W	
R1129	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1130	1-249-431-11	CARBON	15K	5%	1/4W	
R1131	1-249-417-11	CARBON	1K	5%	1/4W	
R1133	1-249-417-11	CARBON	1K	5%	1/4W	
R1134	1-215-432-00	METAL	3K	1%	1/6W	
R1135	1-249-437-11	CARBON	47K	5%	1/4W	
R1137	1-249-401-11	CARBON	47	5%	1/4W	
R1140	1-249-427-11	CARBON	6.8K	5%	1/4W	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION
T1101	1-404-607-11	COIL
T1102	1-404-607-11	COIL

****

*A-1385-095-A K BOARD, COMPLETE
****

PART NO.	DESCRIPTION
*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P
*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
*1-560-278-51	PLUG, CONNECTOR 7P
*1-565-494-11	CONNECTOR, BOARD TO BOARD 18P
*4-341-752-01	EYELET (EY2451,EY2452,EY2453,EY2454, EY2455,EY2456,EY2457,EY2458)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C2451	1-124-257-00	ELECT	2.2MF	20%	50V
C2452	1-124-925-11	ELECT	2.2MF	20%	50V
C2453	1-126-096-11	ELECT	10MF	20%	35V
C2454	1-124-907-11	ELECT	10MF	20%	50V
C2457	1-124-925-11	ELECT	2.2MF	20%	50V
C2458	1-124-618-11	ELECT	2200MF	20%	35V
C2461	1-124-925-11	ELECT	2.2MF	20%	50V
C2462	1-126-233-11	ELECT	22MF	20%	25V
C2466	1-124-925-11	ELECT	2.2MF	20%	50V
C2469	1-124-925-11	ELECT	2.2MF	20%	50V
C2470	1-126-233-11	ELECT	22MF	20%	50V
C2471	1-124-903-11	ELECT	1MF	20%	50V
C2472	1-124-618-11	ELECT	2200MF	20%	35V
C2473	1-124-484-11	ELECT	220MF	20%	35V
C2474	1-124-484-11	ELECT	220MF	20%	35V
C2475	1-136-165-00	FILM	0.1MF	5%	50V
C2476	1-136-165-00	FILM	0.1MF	5%	50V
C2477	1-124-618-11	ELECT	2200MF	20%	35V
C2478	1-124-122-11	ELECT	100MF	20%	50V
C2479	1-124-903-11	ELECT	1MF	20%	50V
C2480	1-124-484-11	ELECT	220MF	20%	35V
C2481	1-124-484-11	ELECT	220MF	20%	35V
C2482	1-124-618-11	ELECT	2200MF	20%	35V
C2483	1-124-618-11	ELECT	2200MF	20%	35V

REF.NO.	PART NO.	DESCRIPTION				REMARK
C2484	1-136-165-00	FILM	0.1MF	5%	50V	
C2485	1-136-165-00	FILM	0.1MF	5%	50V	
C2486	1-124-925-11	ELECT	2.2MF	20%	50V	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D2451	8-719-911-19	DIODE 1SS119
D2452	8-719-911-19	DIODE 1SS119
D2499	8-719-110-52	DIODE RD20ES-B1

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC2451⚠	8-759-980-43	IC TDA2009A
IC2452⚠	8-759-980-43	IC TDA2009A

<IC LINK>

REF.NO.	PART NO.	DESCRIPTION
PS2401⚠	1-532-984-11	LINK, IC 2A
PS2402⚠	1-532-686-21	LINK, IC 2.7A

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q2451	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q2452	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q2455	8-729-423-37	TRANSISTOR 2SC3311A-QRS
Q2456	8-729-423-44	TRANSISTOR 2SA1309A-QRS
Q2457	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q2458	8-729-423-44	TRANSISTOR 2SA1309A-QRS

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION			
R2422	1-214-737-00	METAL	2.2K	1%	1/4W
R2423	1-215-429-00	METAL	2.2K	1%	1/6W
R2424	1-215-419-00	METAL	820	1%	1/6W
R2425	1-215-419-00	METAL	820	1%	1/6W
R2426	1-215-411-00	METAL	390	1%	1/6W
R2427	1-215-411-00	METAL	390	1%	1/6W
R2439	1-249-441-11	CARBON	100K	5%	1/4W
R2440	1-249-413-11	CARBON	470	5%	1/4W
R2441	1-249-435-11	CARBON	33K	5%	1/4W
R2442	1-249-441-11	CARBON	100K	5%	1/4W
R2443	1-249-413-11	CARBON	470	5%	1/4W
R2444	1-249-430-11	CARBON	12K	5%	1/4W
R2445	1-249-430-11	CARBON	12K	5%	1/4W
R2446	1-249-441-11	CARBON	100K	5%	1/4W
R2447	1-249-439-11	CARBON	68K	5%	1/4W
R2451	1-249-441-11	CARBON	100K	5%	1/4W
R2452	1-249-441-11	CARBON	100K	5%	1/4W
R2453	1-249-405-11	CARBON	100	5%	1/4W
R2454	1-215-439-00	METAL	5.6K	1%	1/6W
R2455	1-215-431-00	METAL	2.7K	1%	1/6W
R2456	1-249-441-11	CARBON	100K	5%	1/4W
R2457	1-249-441-11	CARBON	100K	5%	1/4W
R2458	1-249-405-11	CARBON	100	5%	1/4W
R2459	1-249-421-11	CARBON	2.2K	5%	1/4W
R2460	1-249-421-11	CARBON	2.2K	5%	1/4W
R2461	1-215-439-00	METAL	5.6K	1%	1/6W
R2462	1-215-431-00	METAL	2.7K	1%	1/6W
R2463	1-249-435-11	CARBON	33K	5%	1/4W
R2464	1-249-441-11	CARBON	100K	5%	1/4W
R2465	1-215-419-00	METAL	820	1%	1/6W
R2466	1-215-419-00	METAL	820	1%	1/6W
R2467	1-215-383-00	METAL	27	1%	1/6W

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R2468	1-215-383-00	METAL	27	1%	1/6W	
R2470⚠	1-249-385-91	CARBON	2.2	5%	1/4W	F
R2471⚠	1-249-385-91	CARBON	2.2	5%	1/4W	F
R2473	1-249-421-11	CARBON	2.2K	5%	1/4W	
R2474	1-249-421-11	CARBON	2.2K	5%	1/4W	
R2483	1-215-435-00	METAL	3.9K	1%	1/6W	
R2484	1-215-435-00	METAL	3.9K	1%	1/6W	
R2485	1-215-435-00	METAL	3.9K	1%	1/6W	
R2486	1-215-435-00	METAL	3.9K	1%	1/6W	
R2487	1-249-430-11	CARBON	12K	5%	1/4W	
R2488	1-249-430-11	CARBON	12K	5%	1/4W	
R2489	1-215-411-00	METAL	390	1%	1/6W	
R2490	1-215-383-00	METAL	27	1%	1/6W	
R2492	1-215-411-00	METAL	390	1%	1/6W	
R2493	1-215-383-00	METAL	27	1%	1/6W	
R2494⚠	1-249-385-91	CARBON	2.2	5%	1/4W	F
R2495⚠	1-249-385-91	CARBON	2.2	5%	1/4W	F
R2497	1-249-421-11	CARBON	2.2K	5%	1/4W	
R2498	1-249-421-11	CARBON	2.2K	5%	1/4W	

****

*1-638-001-11 J BOARD
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*1-560-278-51 PLUG, CONNECTOR 7P
*4-396-113-01 HOLDER, TERMINAL

<JACK>

REF.NO.	PART NO.	DESCRIPTION
J3401	1-537-187-11	TERMINAL, PUSH (4P)
J3402	1-568-012-11	SOCKET, DIN 4P

****

*1-634-376-11 S BOARD
****

*1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C2701	1-124-657-00	ELECT	10MF	20%	50V
C2702	1-124-768-11	ELECT	4.7MF	20%	50V

<COIL>

REF.NO.	PART NO.	DESCRIPTION
L2701	1-459-758-11	COIL, CHOKE 180UH

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R2701	1-207-958-00	WIREWOUND	8.2	10%	7W	F

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*A-1394-283-A U BOARD, COMPLETE
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*1-564-519-11 PLUG, CONNECTOR 4P
1-564-523-11 PLUG, CONNECTOR 8P
*1-566-941-11 CONNECTOR, HINGE (TAB) 30P
*1-568-377-11 CONNECTOR, HINGE (TAB) 7P
*4-341-752-01 EYELET (EY1,EY2,EY3,EY4,EY5)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C401	1-126-233-11	ELECT	22MF	20%	25V
C402	1-101-004-00	CERAMIC	0.01MF		50V
C403	1-124-903-11	ELECT	1MF	20%	50V
C404	1-124-903-11	ELECT	1MF	20%	50V
C405	1-126-233-11	ELECT	22MF	20%	25V
C406	1-101-004-00	CERAMIC	0.01MF		50V
C407	1-124-903-11	ELECT	1MF	20%	50V
C408	1-124-903-11	ELECT	1MF	20%	50V
C409	1-126-233-11	ELECT	22MF	20%	25V
C410	1-124-907-11	ELECT	10MF	20%	50V
C411	1-126-233-11	ELECT	22MF	20%	25V
C412	1-101-004-00	CERAMIC	0.01MF		50V
C413	1-124-903-11	ELECT	1MF	20%	50V
C414	1-124-903-11	ELECT	1MF	20%	50V
C415	1-126-233-11	ELECT	22MF	20%	25V
C416	1-126-233-11	ELECT	22MF	20%	25V
C417	1-126-233-11	ELECT	22MF	20%	25V
C418	1-124-478-11	ELECT	100MF	20%	25V
C419	1-124-478-11	ELECT	100MF	20%	25V
C420	1-124-477-11	ELECT	47MF	20%	16V
C421	1-126-103-11	ELECT	470MF	20%	16V
C422	1-126-103-11	ELECT	470MF	20%	16V
C423	1-101-004-00	CERAMIC	0.01MF		50V
C424	1-126-233-11	ELECT	22MF	20%	25V
C425	1-126-233-11	ELECT	22MF	20%	25V
C426	1-124-589-11	ELECT	47MF	20%	16V
C429	1-124-589-11	ELECT	47MF	20%	16V
C431	1-124-478-11	ELECT	100MF	20%	25V
C432	1-126-233-11	ELECT	22MF	20%	25V
C433	1-126-233-11	ELECT	22MF	20%	25V
C434	1-126-233-11	ELECT	22MF	20%	25V
C435	1-124-903-11	ELECT	1MF	20%	50V
C436	1-124-903-11	ELECT	1MF	20%	50V
C437	1-126-233-11	ELECT	22MF	20%	25V
C440	1-124-477-11	ELECT	47MF	20%	16V
C441	1-124-477-11	ELECT	47MF	20%	16V
C442	1-126-233-11	ELECT	22MF	20%	25V
C443	1-126-233-11	ELECT	22MF	20%	25V
C445	1-124-589-11	ELECT	47MF	20%	16V
C462	1-124-589-11	ELECT	47MF	20%	16V
C490	1-101-004-00	CERAMIC	0.01MF		50V
C491	1-124-477-11	ELECT	47MF	20%	16V
C492	1-126-233-11	ELECT	22MF	20%	25V
C493	1-124-477-11	ELECT	47MF	20%	16V
C495	1-164-070-11	CERAMIC	100PF	5%	50V
C1402	1-124-589-11	ELECT	47MF	20%	16V
C1403	1-124-589-11	ELECT	47MF	20%	16V
C1404	1-124-234-00	ELECT	22MF	20%	16V
C1405	1-124-477-11	ELECT	47MF	20%	16V
C1406	1-101-004-00	CERAMIC	0.01MF		50V
C1407	1-102-106-00	CERAMIC	100PF	10%	50V

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D401	8-719-109-97	DIODE RD6.8ES-B2
D402	8-719-109-97	DIODE RD6.8ES-B2
D403	8-719-109-97	DIODE RD6.8ES-B2
D404	8-719-109-97	DIODE RD6.8ES-B2
D408	8-719-109-97	DIODE RD6.8ES-B2
D409	8-719-109-97	DIODE RD6.8ES-B2
D410	8-719-109-97	DIODE RD6.8ES-B2
D411	8-719-109-97	DIODE RD6.8ES-B2
D412	8-719-109-97	DIODE RD6.8ES-B2
D413	8-719-109-97	DIODE RD6.8ES-B2
D414	8-719-109-97	DIODE RD6.8ES-B2

U

REF.NO.	PART NO.	DESCRIPTION	REMARK
D415	8-719-110-17	DIODE RD10ES-B2	
D416	8-719-110-17	DIODE RD10ES-B2	
D417	8-719-110-17	DIODE RD10ES-B2	
D418	8-719-911-19	DIODE 1SS119	
D419	8-719-911-19	DIODE 1SS119	
D421	8-719-109-97	DIODE RD6.8ES-B2	
D422	8-719-109-97	DIODE RD6.8ES-B2	
D423	8-719-109-97	DIODE RD6.8ES-B2	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC405	8-759-710-69	IC NJM2233BS	
IC442	8-752-053-38	IC CXA1314P	
IC443	8-752-053-30	IC CXA1414P	
IC444	8-752-053-17	IC CXA1114P	
IC1401	8-759-710-69	IC NJM2233BS	

<JACK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
J401	1-565-931-11	TERMINAL BLOCK, S 3P	
J402	1-565-932-11	TERMINAL BLOCK, S 6P	
J403	1-565-931-11	TERMINAL BLOCK, S 3P	
J404	1-565-838-11	JACK BLOCK, PIN 2P	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L401	1-408-412-00	INDUCTOR 18UH	
L404	1-410-663-31	INDUCTOR 10UH	
L1401	1-408-412-00	INDUCTOR 18UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q401	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q402	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q403	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q404	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q405	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q406	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q407	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q408	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q409	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q410	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q411	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q412	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q413	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q414	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
Q415	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q416	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q491	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q492	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q1401	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q1402	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q1403	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q1404	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q1405	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
Q1406	8-729-423-37	TRANSISTOR 2SC3311A-QRS	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
R401	1-247-804-11	CARBON 75 5% 1/4W	
R402	1-247-804-11	CARBON 75 5% 1/4W	
R403	1-249-434-11	CARBON 27K 5% 1/4W	
R404	1-247-885-00	CARBON 180K 5% 1/4W	
R405	1-247-885-00	CARBON 180K 5% 1/4W	
R406	1-249-434-11	CARBON 27K 5% 1/4W	
R407	1-247-804-11	CARBON 75 5% 1/4W	
R408	1-247-804-11	CARBON 75 5% 1/4W	
R409	1-249-434-11	CARBON 27K 5% 1/4W	
R410	1-247-885-00	CARBON 180K 5% 1/4W	
R411	1-247-804-11	CARBON 75 5% 1/4W	
R412	1-247-804-11	CARBON 75 5% 1/4W	
R413	1-249-434-11	CARBON 27K 5% 1/4W	
R414	1-247-885-00	CARBON 180K 5% 1/4W	
R415	1-249-434-11	CARBON 27K 5% 1/4W	
R416	1-247-885-00	CARBON 180K 5% 1/4W	
R417	1-247-895-00	CARBON 470K 5% 1/4W	
R418	1-249-417-11	CARBON 1K 5% 1/4W	
R419	1-247-895-00	CARBON 470K 5% 1/4W	
R420	1-249-417-11	CARBON 1K 5% 1/4W	
R421	1-247-804-11	CARBON 75 5% 1/4W	
R422	1-247-895-00	CARBON 470K 5% 1/4W	
R423	1-247-895-00	CARBON 470K 5% 1/4W	
R424	1-247-895-00	CARBON 470K 5% 1/4W	
R425	1-247-895-00	CARBON 470K 5% 1/4W	
R426	1-249-424-11	CARBON 3.9K 5% 1/4W	
R427	1-247-895-00	CARBON 470K 5% 1/4W	
R428	1-249-424-11	CARBON 3.9K 5% 1/4W	
R429	1-249-434-11	CARBON 27K 5% 1/4W	
R430	1-247-804-11	CARBON 75 5% 1/4W	
R431	1-247-804-11	CARBON 75 5% 1/4W	
R432	1-249-405-11	CARBON 100 5% 1/4W	
R433	1-249-413-11	CARBON 470 5% 1/4W	
R434	1-249-409-11	CARBON 220 5% 1/4W	
R435	1-249-403-11	CARBON 68 5% 1/4W	
R436	1-249-425-11	CARBON 4.7K 5% 1/4W	
R437	1-247-885-00	CARBON 180K 5% 1/4W	
R438	1-249-405-11	CARBON 100 5% 1/4W	
R439	1-249-413-11	CARBON 470 5% 1/4W	
R440	1-249-417-11	CARBON 1K 5% 1/4W	
R441	1-249-409-11	CARBON 220 5% 1/4W	
R445	1-249-409-11	CARBON 220 5% 1/4W	
R446	1-249-409-11	CARBON 220 5% 1/4W	
R447	1-249-409-11	CARBON 220 5% 1/4W	
R448	1-249-409-11	CARBON 220 5% 1/4W	
R449	1-249-413-11	CARBON 470 5% 1/4W	
R450	1-249-409-11	CARBON 220 5% 1/4W	
R451	1-249-421-11	CARBON 2.2K 5% 1/4W	
R452	1-249-433-11	CARBON 22K 5% 1/4W	
R453	1-249-421-11	CARBON 2.2K 5% 1/4W	
R454	1-249-433-11	CARBON 22K 5% 1/4W	
R455	1-249-421-11	CARBON 2.2K 5% 1/4W	
R456	1-249-433-11	CARBON 22K 5% 1/4W	
R457	1-249-405-11	CARBON 100 5% 1/4W	
R458	1-249-405-11	CARBON 100 5% 1/4W	
R459	1-249-417-11	CARBON 1K 5% 1/4W	
R460	1-249-405-11	CARBON 100 5% 1/4W	
R461	1-249-417-11	CARBON 1K 5% 1/4W	
R462	1-249-417-11	CARBON 1K 5% 1/4W	
R463	1-249-405-11	CARBON 100 5% 1/4W	
R464	1-249-409-11	CARBON 220 5% 1/4W	
R465	1-249-417-11	CARBON 1K 5% 1/4W	
R466	1-249-405-11	CARBON 100 5% 1/4W	
R467	1-249-405-11	CARBON 100 5% 1/4W	
R468	1-249-433-11	CARBON 22K 5% 1/4W	
R469	1-249-433-11	CARBON 22K 5% 1/4W	
R470	1-249-403-11	CARBON 68 5% 1/4W	
R471	1-249-403-11	CARBON 68 5% 1/4W	
R472	1-249-403-11	CARBON 68 5% 1/4W	
R473	1-249-409-11	CARBON 220 5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R474	1-249-405-11	CARBON	100	5%	1/4W	
R475	1-249-417-11	CARBON	1K	5%	1/4W	
R476	1-249-433-11	CARBON	22K	5%	1/4W	
R478	1-249-429-11	CARBON	10K	5%	1/4W	
R479	1-249-433-11	CARBON	22K	5%	1/4W	
R480	1-249-433-11	CARBON	22K	5%	1/4W	
R481	1-249-433-11	CARBON	22K	5%	1/4W	
R483	1-249-417-11	CARBON	1K	5%	1/4W	
R484	1-215-455-00	METAL	27K	1%	1/6W	
R485	1-215-475-00	METAL	180K	1%	1/6W	
R486	1-215-455-00	METAL	27K	1%	1/6W	
R487	1-215-475-00	METAL	180K	1%	1/6W	
R488	1-249-433-11	CARBON	22K	5%	1/4W	
R489	1-249-433-11	CARBON	22K	5%	1/4W	
R490	1-249-417-11	CARBON	1K	5%	1/4W	
R491	1-249-417-11	CARBON	1K	5%	1/4W	
R492	1-249-417-11	CARBON	1K	5%	1/4W	
R493	1-249-431-11	CARBON	15K	5%	1/4W	
R494	1-249-429-11	CARBON	10K	5%	1/4W	
R495	1-249-417-11	CARBON	1K	5%	1/4W	
R496	1-249-425-11	CARBON	4.7K	5%	1/4W	
R497	1-249-417-11	CARBON	1K	5%	1/4W	
R498	1-249-417-11	CARBON	1K	5%	1/4W	
R1401	1-249-405-11	CARBON	100	5%	1/4W	
R1402	1-249-405-11	CARBON	100	5%	1/4W	
R1403	1-249-417-11	CARBON	1K	5%	1/4W	
R1404	1-249-417-11	CARBON	1K	5%	1/4W	
R1405	1-249-431-11	CARBON	15K	5%	1/4W	
R1406	1-249-417-11	CARBON	1K	5%	1/4W	
R1407	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1408	1-249-429-11	CARBON	10K	5%	1/4W	
R1409	1-249-417-11	CARBON	1K	5%	1/4W	
R1410	1-249-417-11	CARBON	1K	5%	1/4W	
R1411	1-249-417-11	CARBON	1K	5%	1/4W	
R1412	1-249-405-11	CARBON	100	5%	1/4W	
R1415	1-249-417-11	CARBON	1K	5%	1/4W	
R1416	1-249-405-11	CARBON	100	5%	1/4W	
R1417	1-249-409-11	CARBON	220	5%	1/4W	
R1418	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1419	1-249-417-11	CARBON	1K	5%	1/4W	
R1420	1-249-413-11	CARBON	470	5%	1/4W	
R1421	1-249-413-11	CARBON	470	5%	1/4W	
R1422	1-249-405-11	CARBON	100	5%	1/4W	
R1423	1-249-441-11	CARBON	100K	5%	1/4W	
R1424	1-249-429-11	CARBON	10K	5%	1/4W	
R1425	1-249-429-11	CARBON	10K	5%	1/4W	
R1427	1-249-429-11	CARBON	10K	5%	1/4W	

<SWITCH>

S401	1-571-729-11	SWITCH, SLIDE
S402	1-554-303-21	SWITCH, KEY BOARD

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*A-1394-308-A T BOARD, COMPLETE
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*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)
*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
*1-564-505-11	PLUG, CONNECTOR 2P
*1-564-506-11	PLUG, CONNECTOR 3P
*1-564-507-11	PLUG, CONNECTOR 4P
*1-564-508-11	PLUG, CONNECTOR 5P

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C7001	1-130-471-00	MYLAR	0.001MF	5%	50V	
C7002	1-130-471-00	MYLAR	0.001MF	5%	50V	
C7003	1-136-161-00	FILM	0.047MF	5%	50V	
C7004	1-124-907-11	ELECT	10MF	20%	50V	
C7005	1-102-965-00	CERAMIC	39PF	5%	50V	
C7006	1-130-471-00	MYLAR	0.001MF	5%	50V	
C7007	1-136-153-00	FILM	0.01MF	5%	50V	
C7009	1-124-903-11	ELECT	1MF	20%	50V	
C7010	1-130-477-00	MYLAR	0.0033MF	5%	50V	
C7012	1-102-965-00	CERAMIC	39PF	5%	50V	
C7013	1-102-978-00	CERAMIC	220PF	5%	50V	
C7014	1-102-824-00	CERAMIC	470PF	5%	50V	
C7015	1-124-463-00	ELECT	0.1MF	20%	50V	
C7016	1-124-657-00	ELECT	10MF	20%	50V	
C7017	1-102-129-00	CERAMIC	0.01MF	10%	50V	
C7018	1-124-477-11	ELECT	47MF	20%	16V	
C7019	1-124-477-11	ELECT	47MF	20%	16V	
C7021	1-124-477-11	ELECT	47MF	20%	16V	
C7022	1-130-477-00	MYLAR	0.0033MF	5%	50V	
C7024	1-101-005-00	CERAMIC	0.022MF		50V	
C7027	1-124-477-11	ELECT	47MF	20%	16V	
C7028	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C7029	1-124-902-00	ELECT	0.47MF	20%	50V	
C7030	1-130-471-00	MYLAR	0.001MF	5%	50V	
C7031	1-101-888-00	CERAMIC	68PF	5%	50V	
C7032	1-136-153-00	FILM	0.01MF	5%	50V	
C7033	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C7034	1-102-113-00	CERAMIC	390PF	10%	50V	
C7035	1-136-157-00	FILM	0.022MF	5%	50V	
C7036	1-124-903-11	ELECT	1MF	20%	50V	
C7037	1-124-907-11	ELECT	10MF	20%	50V	
C7039	1-126-157-11	ELECT	10MF	20%	16V	
C7057	1-102-978-00	CERAMIC	220PF	5%	50V	
C7070	1-124-925-11	ELECT	2.2MF	20%	50V	
C7071	1-102-978-00	CERAMIC	220PF	5%	50V	
C7072	1-124-477-11	ELECT	47MF	20%	16V	
C7073	1-101-004-00	CERAMIC	0.01MF		50V	
C7074	1-124-463-00	ELECT	0.1MF	20%	50V	
C7075	1-102-978-00	CERAMIC	220PF	5%	50V	
C7201	1-124-910-11	ELECT	47MF	20%	50V	
C7202	1-102-129-00	CERAMIC	0.01MF	10%	50V	
C7203	1-102-978-00	CERAMIC	220PF	5%	50V	
C7204	1-102-978-00	CERAMIC	220PF	5%	50V	

<NETWORK>

CP7201	1-236-479-11	NETWORK, C
CP7203	1-236-479-11	NETWORK, C

<DIODE>

D7001	8-719-911-19	DIODE 1SS119
D7002	8-719-911-19	DIODE 1SS119
D7003	8-719-911-19	DIODE 1SS119
D7004	8-719-911-19	DIODE 1SS119
D7005	8-719-911-19	DIODE 1SS119
D7006	8-719-911-19	DIODE 1SS119
D7008	8-719-911-19	DIODE 1SS119
D7009	8-719-911-19	DIODE 1SS119
D7010	8-719-911-19	DIODE 1SS119

T

REF.NO.	PART NO.	DESCRIPTION		REMARK
D7011	8-719-911-19	DIODE 1SS119		
D7012	8-719-911-19	DIODE 1SS119		
D7013	8-719-911-19	DIODE 1SS119		
D7014	8-719-911-19	DIODE 1SS119		
D7015	8-719-911-19	DIODE 1SS119		
D7016	8-719-911-19	DIODE 1SS119		
D7017	8-719-110-06	DIODE RD8.2ES-B1		
D7018	8-719-109-93	DIODE RD6.2ES-B2		
D7019	8-719-109-93	DIODE RD6.2ES-B2		
D7020	8-719-109-93	DIODE RD6.2ES-B2		
D7021	8-719-911-19	DIODE 1SS119		
		<IC>		
IC7001	8-752-817-58	IC CXP5068H-055S		
IC7002	8-759-403-44	IC MN1280-S		
IC7201	8-759-929-62	IC LM7812CT		
		<COIL>		
L7001	1-410-671-31	INDUCTOR	47UH	
L7002	1-410-068-11	INDUCTOR	5.6MMH	
L7003	1-410-663-31	INDUCTOR	10UH	
L7004	1-410-478-11	INDUCTOR	47UH	
		<TRANSISTOR>		
Q7001	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7002	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7003	8-729-600-12	TRANSISTOR 2SK108-C		
Q7004	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7005	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7006	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7007	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7008	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7009	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7010	8-729-423-44	TRANSISTOR 2SA1309A-QRS		
Q7011	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7012	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7013	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7014	8-729-423-44	TRANSISTOR 2SA1309A-QRS		
Q7015	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7016	8-729-423-44	TRANSISTOR 2SA1309A-QRS		
Q7017	8-729-423-44	TRANSISTOR 2SA1309A-QRS		
Q7018	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7019	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7020	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7021	8-729-423-44	TRANSISTOR 2SA1309A-QRS		
Q7026	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7027	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7028	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7029	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7030	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7031	8-729-423-44	TRANSISTOR 2SA1309A-QRS		
Q7032	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7033	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7035	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7036	8-729-423-44	TRANSISTOR 2SA1309A-QRS		
Q7037	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
Q7038	8-729-423-44	TRANSISTOR 2SA1309A-QRS		
Q7301	8-729-423-37	TRANSISTOR 2SC3311A-QRS		
		<RESISTOR>		

REF.NO.	PART NO.	DESCRIPTION				REMARK
R7001	1-249-417-11	CARBON	1K	5%	1/4W	
R7002	1-249-423-11	CARBON	3.3K	5%	1/4W	
R7003	1-249-419-11	CARBON	1.5K	5%	1/4W	
R7004	1-249-429-11	CARBON	10K	5%	1/4W	
R7005	1-249-407-11	CARBON	150	5%	1/4W	
R7006	1-249-429-11	CARBON	10K	5%	1/4W	
R7007	1-249-429-11	CARBON	10K	5%	1/4W	
R7008	1-249-421-11	CARBON	2.2K	5%	1/4W	
R7009	1-249-421-11	CARBON	2.2K	5%	1/4W	
R7010	1-249-430-11	CARBON	12K	5%	1/4W	
R7011	1-247-903-00	CARBON	1M	5%	1/4W	
R7012	1-249-429-11	CARBON	10K	5%	1/4W	
R7013	1-249-424-11	CARBON	3.9K	5%	1/4W	
R7014	1-249-423-11	CARBON	3.3K	5%	1/4W	
R7015	1-249-421-11	CARBON	2.2K	5%	1/4W	
R7016	1-249-417-11	CARBON	1K	5%	1/4W	
R7017	1-249-430-11	CARBON	12K	5%	1/4W	
R7018	1-249-429-11	CARBON	10K	5%	1/4W	
R7019	1-249-441-11	CARBON	100K	5%	1/4W	
R7020	1-249-425-11	CARBON	4.7K	5%	1/4W	
R7021	1-247-903-00	CARBON	1M	5%	1/4W	
R7022	1-249-409-11	CARBON	220	5%	1/4W	
R7023	1-249-429-11	CARBON	10K	5%	1/4W	
R7024	1-249-416-11	CARBON	820	5%	1/4W	
R7025	1-249-425-11	CARBON	4.7K	5%	1/4W	
R7026	1-249-429-11	CARBON	10K	5%	1/4W	
R7027	1-249-414-11	CARBON	560	5%	1/4W	
R7028	1-249-429-11	CARBON	10K	5%	1/4W	
R7029	1-249-425-11	CARBON	4.7K	5%	1/4W	
R7030	1-249-429-11	CARBON	10K	5%	1/4W	
R7031	1-249-421-11	CARBON	2.2K	5%	1/4W	
R7032	1-249-417-11	CARBON	1K	5%	1/4W	
R7033	1-249-437-11	CARBON	47K	5%	1/4W	
R7034	1-249-437-11	CARBON	47K	5%	1/4W	
R7035	1-249-437-11	CARBON	47K	5%	1/4W	
R7036	1-249-429-11	CARBON	10K	5%	1/4W	
R7038	1-249-417-11	CARBON	1K	5%	1/4W	
R7040	1-249-423-11	CARBON	3.3K	5%	1/4W	
R7041	1-249-429-11	CARBON	10K	5%	1/4W	
R7042	1-249-425-11	CARBON	4.7K	5%	1/4W	
R7043	1-249-432-11	CARBON	18K	5%	1/4W	
R7044	1-249-426-11	CARBON	5.6K	5%	1/4W	
R7046	1-249-416-11	CARBON	820	5%	1/4W	
R7047	1-249-429-11	CARBON	10K	5%	1/4W	
R7048	1-249-429-11	CARBON	10K	5%	1/4W	
R7063	1-249-405-11	CARBON	100	5%	1/4W	
R7064	1-249-405-11	CARBON	100	5%	1/4W	
R7066	1-249-405-11	CARBON	100	5%	1/4W	
R7068	1-249-438-11	CARBON	56K	5%	1/4W	
R7069	1-249-433-11	CARBON	22K	5%	1/4W	
R7079	1-249-413-11	CARBON	470	5%	1/4W	
R7080	1-249-417-11	CARBON	1K	5%	1/4W	
R7081	1-249-421-11	CARBON	2.2K	5%	1/4W	
R7082	1-249-417-11	CARBON	1K	5%	1/4W	
R7083	1-249-419-11	CARBON	1.5K	5%	1/4W	
R7084	1-249-418-11	CARBON	1.2K	5%	1/4W	
R7085	1-249-421-11	CARBON	2.2K	5%	1/4W	
R7086	1-249-429-11	CARBON	10K	5%	1/4W	
R7087	1-249-429-11	CARBON	10K	5%	1/4W	
R7088	1-249-405-11	CARBON	100	5%	1/4W	
R7089	1-249-427-11	CARBON	6.8K	5%	1/4W	
R7090	1-249-427-11	CARBON	6.8K	5%	1/4W	
R7091	1-249-433-11	CARBON	22K	5%	1/4W	
R7092	1-249-421-11	CARBON	2.2K	5%	1/4W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la securité. Ne les remplacer que par des pièces de numéro spécifié.

T **H6** **F0**

REF.NO.	PART NO.	DESCRIPTION				REMARK
R7093	1-247-889-00	CARBON	270K	5%	1/4W	
R7094	1-249-427-11	CARBON	6.8K	5%	1/4W	
R7095	1-249-412-11	CARBON	390	5%	1/4W	
R7096	1-249-426-11	CARBON	5.6K	5%	1/4W	
R7097	1-249-423-11	CARBON	3.3K	5%	1/4W	
R7098	1-249-433-11	CARBON	22K	5%	1/4W	
R7099	1-249-440-11	CARBON	82K	5%	1/4W	
R7104	1-249-441-11	CARBON	100K	5%	1/4W	
R7105	1-249-429-11	CARBON	10K	5%	1/4W	
R7106	1-249-434-11	CARBON	27K	5%	1/4W	
R7107	1-249-412-11	CARBON	390	5%	1/4W	
R7108	1-249-423-11	CARBON	3.3K	5%	1/4W	
R7109	1-249-413-11	CARBON	470	5%	1/4W	
R7110	1-249-413-11	CARBON	470	5%	1/4W	
R7111	1-249-417-11	CARBON	1K	5%	1/4W	
R7112	1-249-436-11	CARBON	39K	5%	1/4W	
R7113	1-249-433-11	CARBON	22K	5%	1/4W	
R7114	1-249-432-11	CARBON	18K	5%	1/4W	
R7115	1-249-428-11	CARBON	8.2K	5%	1/4W	
R7116	1-249-425-11	CARBON	4.7K	5%	1/4W	
R7117	1-249-421-11	CARBON	2.2K	5%	1/4W	
R7118	1-249-412-11	CARBON	390	5%	1/4W	
R7119	1-249-405-11	CARBON	100	5%	1/4W	
R7120	1-249-405-11	CARBON	100	5%	1/4W	
R7121	1-249-405-11	CARBON	100	5%	1/4W	
R7122	1-249-405-11	CARBON	100	5%	1/4W	
R7124	1-249-429-11	CARBON	10K	5%	1/4W	
R7125	1-249-422-11	CARBON	2.7K	5%	1/4W	
R7126	1-247-895-00	CARBON	470K	5%	1/4W	
R7127	1-247-903-00	CARBON	1M	5%	1/4W	
R7128	1-249-429-11	CARBON	10K	5%	1/4W	
R7129	1-249-421-11	CARBON	2.2K	5%	1/4W	
R7130	1-249-417-11	CARBON	1K	5%	1/4W	
R7131	1-249-421-11	CARBON	2.2K	5%	1/4W	
R7132	1-249-429-11	CARBON	10K	5%	1/4W	
R7133	1-249-431-11	CARBON	15K	5%	1/4W	
R7201	1-216-379-11	METAL OXIDE	6.8	5%	2W	F
R7301	1-249-437-11	CARBON	47K	5%	1/4W	
R7302	1-249-441-11	CARBON	100K	5%	1/4W	
R7304	1-249-437-11	CARBON	47K	5%	1/4W	
R7305	1-249-441-11	CARBON	100K	5%	1/4W	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION
X7001	1-577-071-11	VIBRATOR, CERAMIC

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*1-638-008-11 H6 BOARD
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PART NO.	DESCRIPTION
*1-564-524-11	PLUG, CONNECTOR 9P
*1-564-525-11	PLUG, CONNECTOR 10P
*4-374-906-01	HOLDER (TV/V), LED
*4-374-987-01	GUIDE, LIGHT
*4-381-686-01	BRACKET (B), LIGHT GUIDE

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C52	1-126-160-11	ELECT	1MF	20%	50V
C53	1-124-465-00	ELECT	0.47MF	20%	50V
C55	1-102-114-00	CERAMIC	470PF	10%	50V

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D2	8-719-911-19	DIODE 1SS119 (KV-27XBR51(U/C) ONLY)	
D52	8-719-812-41	DIODE TLR124	
D53	8-719-812-41	DIODE TLR124	
D54	8-719-911-19	DIODE 1SS119	

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC51	8-749-922-13	IC KEY-C00SV-F

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION			
R53	1-249-409-11	CARBON	220	5%	1/4W
R54	1-249-437-11	CARBON	47K	5%	1/4W

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION
S51	⚠1-571-532-23	SWITCH, TACTIL (POWER)
S52	1-571-532-21	SWITCH, TACTIL
S53	1-571-532-21	SWITCH, TACTIL
S54	1-571-532-21	SWITCH, TACTIL
S55	1-571-532-21	SWITCH, TACTIL
S56	1-571-532-21	SWITCH, TACTIL

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*1-629-628-11 F0 BOARD
****

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MISCELLANEOUS
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REF.NO.	PART NO.	DESCRIPTION			REMARK
	⚠1-417-177-11	SELECTOR, ANTENNA (AS-1) (KV-27XBR51(U/C) ONLY			
	⚠1-417-178-11	SELECTOR, ANTENNA (AS-2) (KV-27XBR55(U/C) ONLY			
	⚠1-426-350-11	COIL, DEMAGNETIZATION			
	⚠1-451-275-31	DEFLECTION YOKE (Y28PFA)			
	1-452-032-00	MAGNET, DISK; 10MM ϕ			
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ			
	*1-556-945-21	CABLE, P-P			
	*1-557-056-31	CABLE, P-P (KV-27XBR55(U/C) ONLY)			
	*1-568-507-11	CONNECTOR, BRIDGE 15P			
	⚠1-590-492-11	CORD, POWER (WITH CONNECTOR)			
	8-741-682-01	IC SBX1682-01			
R508	1-215-866-11	RES, METAL OXIDE FILM 330	5%	1W	F
V901	⚠8-737-753-05	PICTURE TUBE (A68JMT50X)			

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ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
A-1470-904-A	COMMANDER ASSY, CARD (RM-KIT)	
*A-1478-507-A	WOOFER BLOCK ASSY	
*A-1478-508-A	SPEAKER BLOCK ASSY	
1-465-767-11	COMMANDER, REMOTE (RM-Y107) (KV-27XBR55(U/C) ONLY)	
1-465-768-11	COMMANDER, REMOTE (RM-Y106) (KV-27XBR51(U/C) ONLY)	
1-513-379-00	CONVERTER (EAC-25) (KV-27XBR51(C),KV-27XBR55(C) ONLY)	
1-559-238-11	CORD, SPEAKER CONNECTION	
1-562-443-11	CONNECTOR, ANTENNA (KV-27XBR51(U),KV-27XBR55(U) ONLY)	
*3-704-281-01	BAG, PROTECTION (STANDARD)	
*3-704-301-01	BAG (STANDARD), PROTECTION	
3-752-990-21	MANUAL, INSTRUCTION	
3-752-990-31	MANUAL, INSTRUCTION (KV-27XBR51(C),KV-27XBR55(C) ONLY)	
4-384-027-01	BAG, PROTECTION	
*4-389-635-01	BOX, SPEAKER	
*4-393-459-01	INDIVIDUAL CARTON	
*4-393-460-01	CUSHION (UPPER) (ASSY)	
*4-393-461-01	CUSHION (LOWER) (ASSY)	

ACCESSORY

RM-Y106/RM-Y107

SPECIFICATIONS

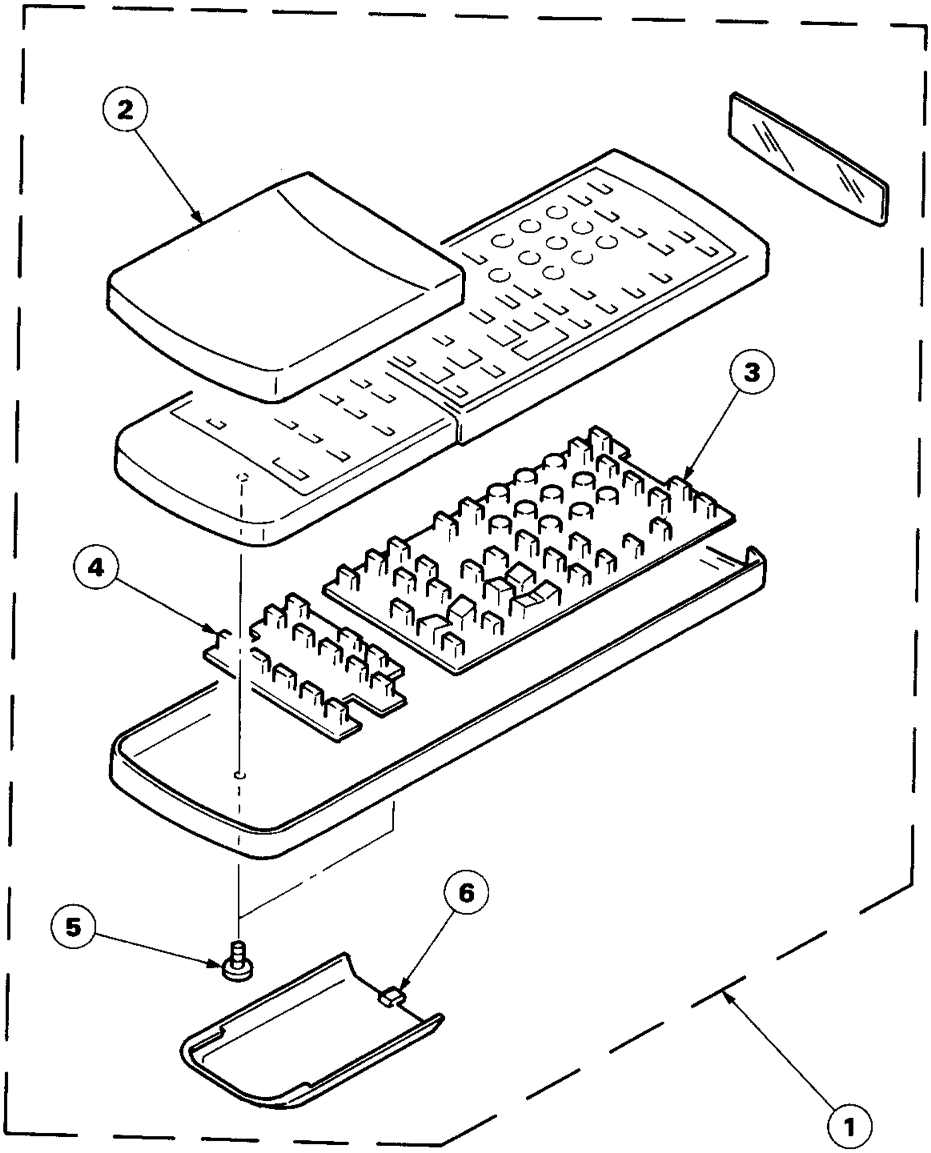
Remote control system	Infrared control
Power repuirements	3 Vdc
Dimensions	2 batteries ICE designation R 6 (size AA)
	Approx. 56(w)×31.5(h)×225(d) mm
Weight	Apprpx. 210 g inclcding batteries
Accessories supplied	IEC designation R 6 battery (2)

Design and specifications subject to change without notice.

REMOTE COMMANDER

EXPLODED VIEW

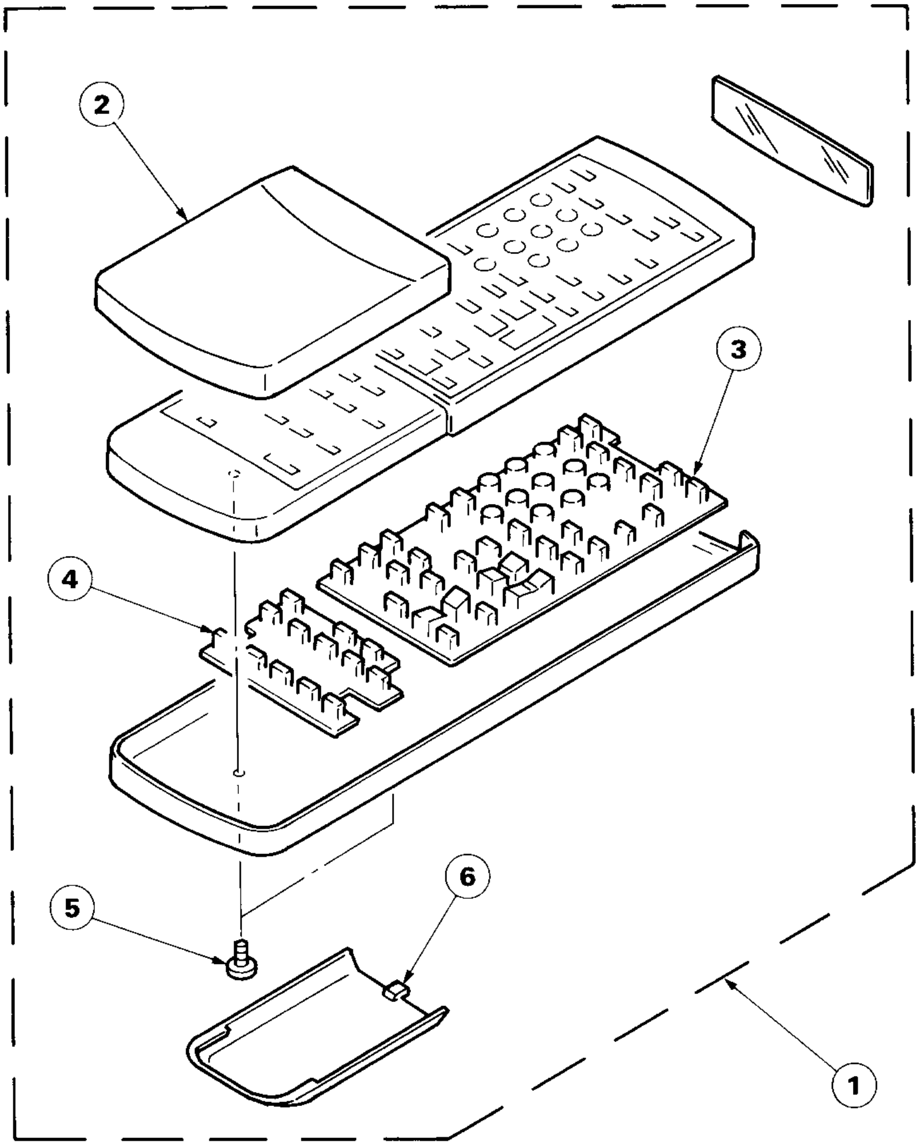
RM-Y106



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	1-465-768-11	COMMANDER, REMOTE (RM-Y106)	2-6	4	9-998-908-01	SWITCH RUBBER B	
2	9-998-909-01	COVER		5	9-996-295-01	SCREW-TAPPING M2X6 (B)	
3	9-998-907-21	SWITCH RUBBER A		6	9-998-214-01	COVER, BATTERY	

EXPLODED VIEW

RM-Y107



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	1-465-767-11	COMMANDER, REMOTE (RM-Y107)	2-6	4	9-998-908-01	SWITCH RUBBER B	
2	9-998-909-01	COVER		5	9-996-295-01	SCREW-TAPPING M2X6 (B)	
3	9-998-907-11	SWITCH RUBBER A		6	9-998-214-01	COVER, BATTERY	

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TV Group

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